# XR-U881RDS/U882RDS

# SERVICE MANUAL

*AEP Model*
*UK Model*
XR-U881RDS
*Germany Model*
XR-U882RDS

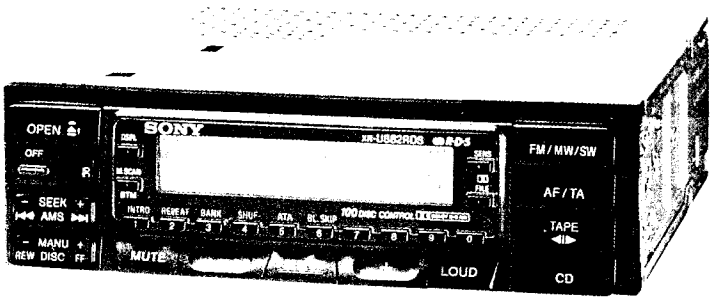


**Photo : XR-U882RDS**

| | |
|---|---|
| Model Name Using Similar Mechanism | XR-7551 |
| Tape Transport Mechanism Type | MG-55U-31 |

## SPECIFICATIONS

### *Cassette player section*

Tape track: 4-track 2-channel stereo
Frequency response: 30 – 20,000 Hz

Signal-to-noise ratio

| Cassette type | Dolby B | Dolby C | Dolby NR off |
|---|---|---|---|
| TYPE II, IV | 66 dB | 76 dB | 58 dB |
| TYPE I | 63 dB | 73 dB | 55 dB |

Wow and flutter: 0.09% (WRMS) (XR-U881RDS)
0.1% (WRMS) (XR-U882RDS)

### *Tuner section*

**FM**
Tuning range: 87.5 – 108.0 MHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz
Usable sensitivity: 8 dBf (75 ohms)
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz: 0.5% (stereo), 0.3% (mono)
Separation: 35 dB at 1 kHz
Frequency response: 30 – 15,000 Hz
Capture ratio: 2 dB

**MW/LW (XR-U881RDS)**
Tuning range: MW: 531 – 1,602 kHz
LW: 153 – 281 kHz

**MW/SW (XR-U882RDS)**
Tuning range: MW : 531 – 1,602kHz
SW : 5,950 – 6,205kHz
Antenna terminal: External antenna connector
Intermediate frequency: 450 kHz
Sensitivity: MW : 30μV
LW : 50μV (XR-U881RDS)
SW : 50μV (XR-U882RDS)

### *General*

Output lead: Power antenna relay control lead
Power amplifier control lead
Tone controls: Bass ±10 dB at 100 Hz
Treble ±10 dB at 10 kHz
Loudness: +10 dB at 100 Hz
+6 dB at 10 kHz
Power requirements: 12 V DC car battery (negative ground)
Dimensions: Approx. 178 × 50 × 160 mm (w/h/d), not incl. projecting parts and controls
Mounting dimensions: Approx. 182 × 53 × 143 mm (w/h/d), not incl. projecting parts and contnrols
Weight: Approx. 1.5 kg
Accessories supplied: Mounting hardware (1 set)
UNILINK cable (1)
Power input lead (1)
Remote commander (1)
R6 (size AA) battery (2)
Carrying pouch (1) (XR-U882RDS)

Design and specifications subject to change without notice.

MICROFILM

# FM/MW/LW CASSETTE CAR STEREO
XR-U881RDS

# FM/MW/SW CASSETTE CAR STEREO
XR-U882RDS

SONY®

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# Features

### General

- **Full-logic feather touch system** for easy and smooth operation.
- **Large-and-wide-sized LCD** for displaying the operation modes clearly.
- Switchable **two color illumination (amber and green).** (page 7)
- Supplied with a **wireless remote commander.** (page 8)
- Provided with a **digital 12-hour clock.** (page 13)
- **Telephone-mute function for** decreasing the volume automatically with a telephone call.
- **Detachable-front panel** enables you to take the front panel away with you when you leave your car. (page 12)
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit.

### Tuner section

- **SSIR (Sony Super Interference Rejection) PLL synthesizer tuner.**
- Provided with a **FM diversity reception** system for a better radio reception. (page 11)
- Up to 40 stations can be preset. 20 stations for FM, 10 stations each for MW and LW or SW. (page 27)
- **BTM (Best Tuning Memory) function** automatically selects and stores the stations with strong signals on the preset buttons in order of frequency. (page 25)
- The information services of **FM RDS stations** can be received. (page 29)

### Cassette deck section

- **Super-laminated head** for clear treble sound.
- **Auto-reverse function** for listening to both sides of a cassette continuously.
- **Auto-metal selection** for detecting metal and $CrO_2$ tapes and automatically adjusting the deck to each tape type. (page 16)
- **Dolby B and C NR* system** reduces tape hiss noises during the tape playback. (page 16)
- **AMS (Automatic Music Sensor)** for automatically locating the beginning of a selection during the tape playback. (page 17)
- **Intro scan function** for playing the first 10 seconds of each track. (page 19)
- **Repeat play function** for listening to a currently playing track repeatedly. (page 19)
- **Blank skip function** for automatically skipping blank spaces during the tape playback. (page 20)
- **ATA (Automatic Tuner Activation)** for automatically turning on the tuner during the fast-forwarding or rewinding of a tape. (page 20)

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

### CD changer control section

(when the optional Sony CD changers are connected)

- Several CD changers can be connected and controlled by the use of the Sony source selector (sold separately) with the unit.
- **Direct disc selection** for selecting discs directly with the numerical keys. (page 38)
- **Intro scan function** for playing the first 10 seconds of each track of every disc. (page 42)
- **Repeat play function** for playing a track, a disc, or a changer repeatedly. (page 41)
- **Shuffle play function** for playing tracks in random order. (page 40)
- **Manual search function** for locating a desired point in a track. (page 39)
- **Custom file function** for displaying the title of each disc and setting a play/skip mode on each track. (page 43)

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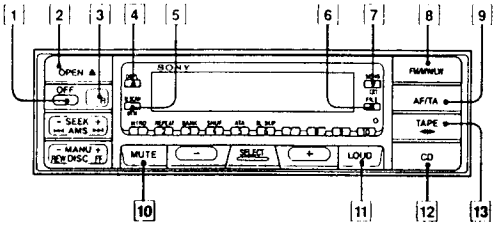
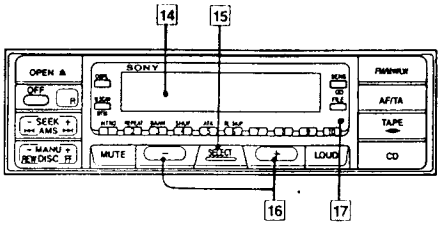
This section is extracted from XR-U881RDS instruction manual.

## Location and Function of Controls

### Main Unit




Refer to the pages in ● for details.

1 **OFF button**
Press to turn off the unit.

2 **OPEN/ ≙ (front panel open/eject) button** ● ●

3 **Receptor for the remote commander**

4 **DSPL (display change/time set) button** ● ● ● ● ● ● ● ●

5 **M.SCAN/BTM (memory scan/best tuning memory) button** ●

6 **FILE (custom-file) button** ● ● ● ●

7 **SENS/ DD (sensitivity/Dolby NR) button** ● ●

8 **FM/MW/LW (XR-U881RDS), FM/MW/SW (XR-U882RDS) (radio on/band select) button** ●

9 **AF/TA (alternative frequency/traffic information) button** ● ●

10 **MUTE button**
Press to mute the sound momentarily. Press again to restore the same volume level as before. This button will be also canceled in the following cases:
— when the + or OFF button is pressed.
— when ejecting a cassette by pressing the OPEN/ ≙ button during tape playback.
— when the ignition key of your car has been turned off to the OFF position and more than 8 seconds have elapsed.

11 **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at a low volume level. To disengage the button, press it again.

12 **CD (disc play / CD changer select) button** ● ●

13 **TAPE ◄II► (playback / transport direction change) button** ● ●

14 **Display window**

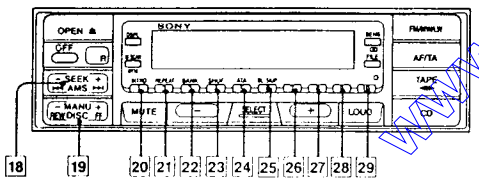
15 **SELECT (control mode select) button**
Press to select the desired control mode: BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

| Display window | Control mode | Press − | Press + |
|---|---|---|---|
| BAS | Bass control | For less bass | For more bass |
| TRE | Treble control | For less treble | For more treble |
| BAL | Balance control | To decrease the right-speaker volume | To decrease the left-speaker volume |
| FAD | Fader control | To decrease the rear-speaker volume | To decrease the front-speaker volume |
| VOL | Volume control | For less volume | For more volume |

16 **(volume/bass/treble/balance/fader control) button**
button normally functions as the volume control. To adjust other modes, press or within three seconds after selecting the desired mode with the SELECT button. The control mode automatically goes back to the volume control mode in three seconds.

17 **Reset button**
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function.






| | During tape playback | During disc play | During radio reception |
|---|---|---|---|
| 18 | AMS (automatic music sensor) button ● ● | | SEEK (automatic tuning) button ● |
| 19 | FF/REW (fast-forward/ rewind) button ● | DISC/MANU (disc change/ manual search) button ● ● | MANU (manual tuning) button ● |
| 20 | INTRO (track cue play) ● ● | | |
| 21 | REPEAT (repeat play) button ● | | |
| 22 | — | BANK button ● | |
| 23 | — | SHUF (shuffle play) button ● | |
| 24 | ATA (automatic tuner activation) button ● | — | Preset buttons ● ● ● |
| 25 | BL.SKIP (blank skip) button ● | — | |
| 26 | — | — | |
| 27 | — | — | |
| 28 | — | — | |
| 29 | — | — | |

The buttons 20 — 29 function as direct disc selection buttons as well during disc play. (page 38)

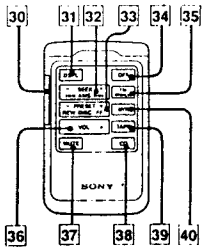
***Changing the illumination color***

Press while pressing the SELECT button.

***Muting a beep sound***

Press while pressing the SELECT button. To obtain the beep sound again, press these buttons once more.

### Remote Commander




***Buttons of the same function as those on the main unit***

31 **DSPL (display change) button** ● ● ● ● ● ● ●

| | During tape playback | During disc play | During radio reception |
|---|---|---|---|
| 32 | AMS (Automatic Music Sensor) button ● ● | | SEEK (automatic tuning) button ● |

34 **OFF button**

35 **FM/MW/LW (XR-U881RDS), FM/MW/SW (XR-U882RDS) (radio on/band select) button** ●

37 **MUTE button**

38 **CD (disc play/CD changer select) button** ● ●

39 **TAPE (playback/transport direction change) button** ● ●

40 **AF/TA (alternative frequency/traffic information) button** ● ●
Use this button for the RDS station reception.

***Different function buttons***

30 **M.ILL (memory illumination) switch**
To illuminate the buttons on the remote commander, slide down this switch. The illumination goes off automatically after about 15 seconds.

| | During tape playback | During disc play | During radio reception |
|---|---|---|---|
| 33 | FF/REW (fast forward/rewind) button ● | DISC (disc change) button ● ● | PRESET −/+ (preset search) button ● |

You cannot do the manual search and manual tuning with the remote commander.

36 **VOL (volume) button**
This button adjusts only the volume level.

When the POWER SELECT switch is set to OFF, the unit cannot be operated with the remote commander unless one of the FM/MW/LW, TAPE, or CD buttons of the unit is pressed or a cassette is inserted to activate the unit first.





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# Connections | Connexions | Conexiones | Aansluitingen

## Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the red power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- Run all ground wires to a common ground point.

## Précautions

- Cet appareil est conçu pour fonctionner exclusivement sur courant continu de 12 volts avec masse négative.
- Avant de procéder aux connexions, débrancher la borne de mise à la masse de la batterie du véhicule, pour éviter tout court-circuit.
- Brancher le fil d'entrée d'alimentation rouge uniquement après que tous les autres fils ont été connectés. En outre, veiller à le raccorder à la borne d'alimentation positive de 12 V qui est énergétisée quand la clé de contact est commutée sur la position accessoire.
- Rassembler tous les fils de mise à la masse en un point de masse commun.

## Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V CC y negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el conductor de entrada de alimentación rojo solamente después de haber conectado todos los demás. Cerciórese de conectarlo al terminal de alimentación de 12 V positivo. Este conductor debera energizarse al poner la llave de encendido en la posición para accesorios.
- Conecte todos los terminales de puesta a masa a un punto común.

## Waarschuwing

- Dit apparaat is uitsluitend geschikt voor gebruik op gelijkstroom van een 12 Volts auto-accu, negatief geaard.
- Alvorens te beginnen met het maken van aansluitingen, dient de aardklem van de auto-accu te worden losgemaakt. Dit om kortsluiting te voorkomen.
- Sluit de rode stroomdraad pas aan nadat alle andere aansluitingen zijn gemaakt. Zorg ervoor dat deze stroomdraad op de positieve 12 V accu-aansluiting wordt aangesloten. De draad komt dan onder spanning te staan wanneer de contactsleutel in de "ACC" stand wordt gezet.
- Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.

## When the Unit is Used in a Car with No Accessory Position on the Ignition Key — POWER SELECT switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear if the unit is used in a car with no accessory position on the ignition key.
To avoid this battery wear when using the unit in such a car, set the POWER SELECT switch located at the bottom of the unit to the OFF position, then press the reset button. The illumination is reset to stay off while the unit is not being played.

**Note**

The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the OFF position.

## Quand l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoire — Interrupteur POWER SELECT

L'éclairage du panneau avant est réglé en usine de façon à s'allumer même quand l'appareil ne fonctionne pas.
Cependant, ce réglage risque d'épuiser la batterie si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoire.
Pour éviter ce désagrément, commuter l'interrupteur POWER SELECT situé sur le fond de l'appareil sur OFF, puis appuyer sur la touche de réinitialisation. L'éclairage est réinitialisé pour rester éteint quand l'appareil n'est pas utilisé.

**Remarque**

Quand l'interrupteur POWER SELECT est commuté sur OFF, l'avertisseur du panneau avant ne fonctionne pas.

## Cuando vaya a emplear la unidad en un automóvil con llave de encendido sin posición para accesorios — Selector POWER SELECT

La iluminación del panel frontal ha sido ajustada en la fábrica para que esté activada incluso aunque la unidad no se encuentre en reproducción. Sin embargo, este ajuste puede provocar cierta descarga de la batería del automóvil si emplea la unidad en un automóvil con llave de encendido sin posición para accesorios. Para evitar esta descarga de la batería en un automóvil de este tipo, ponga en OFF el selector POWER SELECT, situado en el panel inferior, y después presione el botón de reposición. La iluminación permanecerá desactivada mientras la unidad no se encuentre en reproducción.

**Nota**

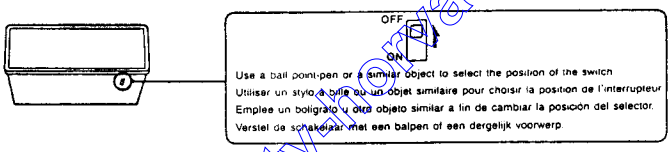
La alarma de aviso para el panel frontal no se activará cuando el selector POWER SELECT esté en OFF.

## Als het kontaktslot van uw auto geen "ACC" stand heeft — Gebruik van de stroomkeuzeschakelaar (POWER SELECT)

Het apparaat is in de fabriek zo ingesteld dat de verlichting van het voorpaneel altijd aan is, zelfs al is het apparaat zelf uitgeschakeld. Als het apparaat echter wordt gemonteerd in een auto waar het kontaktslot geen "ACC" stand heeft, kan dit leiden tot onnodige uitputting van de accu. Om dit te vermijden, zet u de stroom-keuzeschakelaar (POWER SELECT) aan de onderkant van het apparaat in de "OFF" stand, en vervolgens drukt u de terugstelltoets in. Met de keuzeschakelaar in deze stand zal de verlichting van het voorpaneel gedoofd zijn, zolang het apparaat niet is ingeschakeld.

**Opmerking**

Zolang de stroom-keuzeschakelaar (POWER SELECT) in de "OFF" stand staat, werkt de waarschuwingstoon op het voorpaneel van het apparaat niet.


OFF
ON
Use a ball point-pen or a similar object to select the position of the switch
Utiliser un stylo à bille ou un objet similaire pour choisir la position de l'interrupteur
Emplee un bolígrafo u otro objeto similar a fin de cambiar la posición del selector.
Verstel de schakelaar met een balpen of een dergelijk voorwerp.

## When a FM Diversity Antenna is Used — FM DIVERSITY switch

This unit can be connected with diversity antennas. If you use this unit with the diversity antennas, set the FM DIVERSITY switch located at the top of the unit to the ON position to activate the diversity system.

## Quand une antenne à rayonnement zénithal réduit est utilisée — Interrupteur FM DIVERSITY

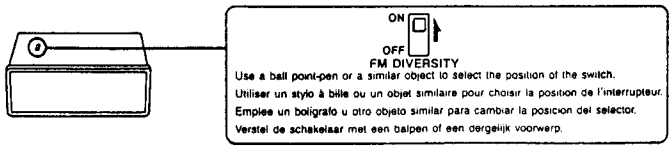
Cet appareil accepte le branchement d'antennes à rayonnement zénithal réduit. Pour pouvoir utiliser l'appareil avec ce type d'antenne, commuter l'interrupteur FM DIVERSITY situé sur le dessus de l'appareil sur ON, afin d'activer le système de diversité.

## Cuando emplee antenas para recepción en diversidad — Selector FM DIVERSITY

Esta unidad podrá conectarse a antenas para recepción diversidad. Si va a emplear esta unidad con las antenas para recepción en diversidad, ponga el interruptor FM DIVERSITY situado en la parte inferior de la unidad en la posición ON a fin de activar el sistema de recepción en diversidad.

## Bij aansluiten van een meervoudige FM-antenne — Gebruik van de FM DIVERSITY shakelaar

Dit apparaat is geschikt voor het meervoudig antennesysteem. Bij gebruik van een meervoudige antenne dient u de FM DIVERSITY shcakelaar aan de bovenkant van het apparaat in de "ON" stand te zetten.


ON
OFF
FM DIVERSITY
Use a ball point-pen or a similar object to select the position of the switch.
Utiliser un stylo à bille ou un objet similaire pour choisir la position de l'interrupteur.
Emplee un bolígrafo u otro objeto similar para cambiar la posicion del selector.
Verstel de schakelaar met een balpen of een dergelijk voorwerp.

**When you do not use the FM diversity antennas**

If you wish to connect a conventional rod antenna, be sure to connect it to the antenna connector of the unit marked "MAIN", and set the FM DIVERSITY switch to the OFF position. Never connect the antenna to the connector marked "SUB", otherwise if the FM DIVERSITY switch is set to the ON position, the radio signals may not be received properly.

**Notes**

- The radio reception will be disturbed by noise if the connection of the antennas was not made properly or the FM DIVERSITY switch was not set correctly.
- For details about the diversity antenna, refer to its instructions manual.

**Quand on n'utilise pas d'antenne à rayonnement zénithal réduit**

Pour brancher une antenne conventionnelle, veiller à raccorder celle-ci au connecteur d'antenne de l'appareil, marqué "MAIN" et commuter l'interrupteur DIVERSITY sur OFF. Ne jamais raccorder l'antenne au connecteur marqué "SUB", sinon, si l'interrupteur FM DIVERSITY est commuté sur ON, les signaux radiodiffusés seront mal reçus.

**Remarques**

- La réception radio risque d'être parasitée si le raccordement des antennes a été mal réalisé ou si l'interrupteur FM DIVERSITY n'est pas correctement réglé.
- Pour les détails sur les antennes à rayonnement zénithal réduit, se reporter à leur mode d'emploi.

**Cuando no vaya a emplear antenas para recepción en diversidad de FM**

Si desea conectar una antena telescópica convencional, cerciórese de conectarla a la toma de antena de la unidad marcada con "MAIN", y de poner el selector FM DIVERSITY en OFF. No conecte nunca esta antena a la toma marcada con "SUB", ya que si el selector FM DIVERSITY estuviese en ON, no se recibirían adecuadamente las señales de radiodifusión.

**Notas**

- La radiorrecepción se verá perturbada por ruido si la conexión de las antenas no se ha realizado adecuadamente, o si el selector FM DIVERSITY no se encuentra en la posición correcta.
- Con respecto a los detalles sobre las antenas para recepción en diversidad, consulte su manual de instrucciones.

**Bij aansluiten van een gewone antenne met slechts één aansluiting**

Maakt u geen gebruik van het meervoudig FM-antennesysteem, maar een gewone sprietantenne met een enkele aansluiting, sluit deze dan aan op de "MAIN" ANT aansluiting, en zet de FM DIVERSITY schakelaar in de "OFF" stand.
Sluit een gewone sprietantenne niet aan op de "SUB" aansluiting, anders kan er geen sprake zijn van goede radio-ontvangst, als de FM DIVERSITY schakelaar in de "ON" stand staat.

**Opmerkingen**

- Er kan storing in de radio-ontvangst optreden als de antenne niet op de juiste wijze is aangesloten of wanneer de FM DIVERSITY schakelaar niet in de juiste stand staat.
- Zie voor nadere bijzonderheden de gebruiksaanwijzing van de meervoudige antenne.



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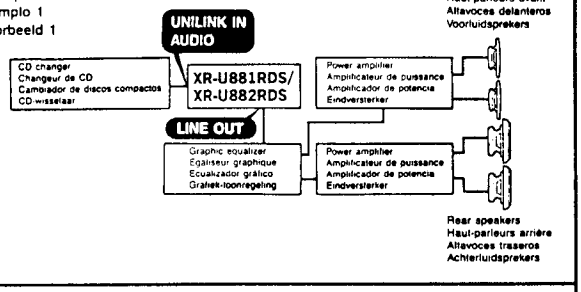
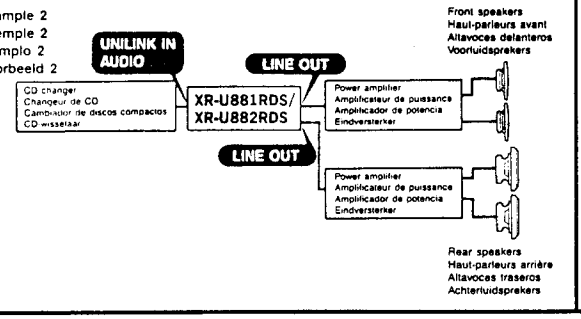
## Connection Diagram — Schéma de connexion — Diagrama de conexión — Aansluitschema's

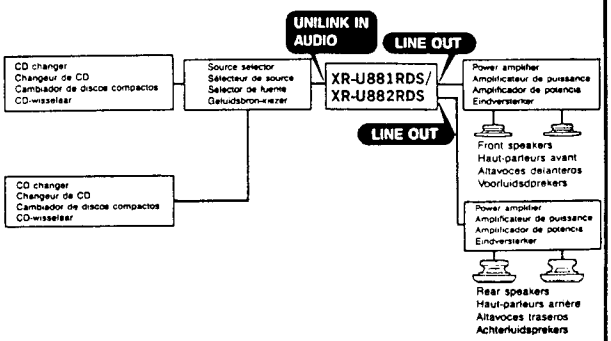
Example 1
Exemple 1
Ejemplo 1
Voorbeeld 1




Example 2
Exemple 2
Ejemplo 2
Voorbeeld 2




Example 3
Exemple 3
Ejemplo 3
Voorbeeld 3



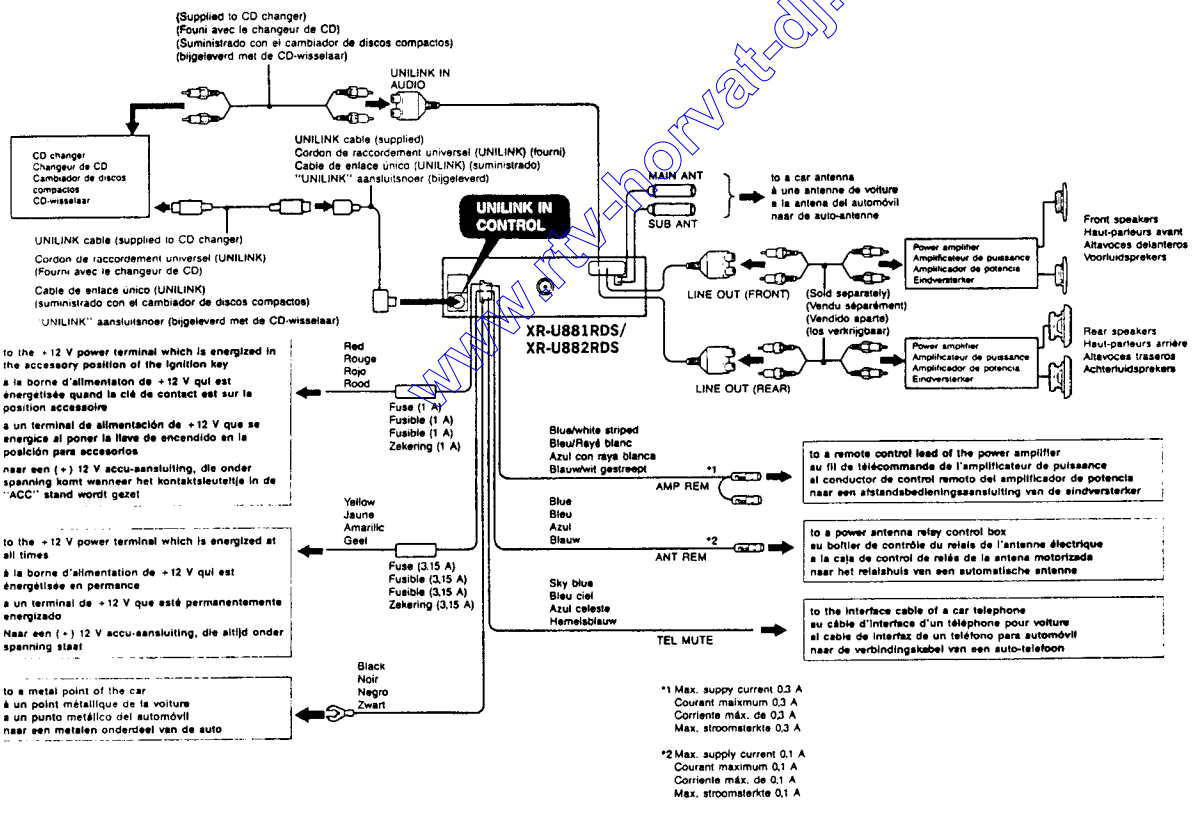

If you connect two or more CD changers, the source selector XA-U20 or XA-U40 (sold separately) is required.

Si deux changeurs de CD ou plus sont utilisés, un sélecteur de source XA-U20 ou XA-U40, (vendu séparément), est requis.

Para conectar dos o más cambiadores de discos compactos, necesitará el selector de fuente XA-U20 o XA-U40 (vendido aparte).

Voor het aansluiten van twee of meer CD-wisselaars is de XA-U20 of XA-U40 geluidsbron-kiezer (los verkrijgbaar) vereist.

## Connections of Example 2 — Connexions de l'exemple 2 — Conexiones para el ejemplo 2 — Volledige aansluitingen bij voorbeeld 2


(Supplied to CD changer)
(Fourni avec le changeur de CD)
(Suministrado con el cambiador de discos compactos)
(bijgeleverd met de CD-wisselaar)
UNILINK IN AUDIO
CD changer
Changeur de CD
Cambiador de discos compactos
CD-wisselaar
UNILINK cable (supplied)
Cordon de raccordement universel (UNILINK) (fourni)
Cable de enlace único (UNILINK) (suministrado)
"UNILINK" aansluitsnoer (bijgeleverd)
UNILINK IN CONTROL
UNILINK cable (supplied to CD changer)
Cordon de raccordement universel (UNILINK)
(Fourni avec le changeur de CD)
Cable de enlace único (UNILINK)
(suministrado con el cambiador de discos compactos)
"UNILINK" aansluitsnoer (bijgeleverd met de CD-wisselaar)
XR-U881RDS/
XR-U882RDS
MAIN ANT
SUB ANT
to a car antenna
à une antenne de voiture
a la antena del automóvil
naar de auto-antenne
LINE OUT (FRONT)
LINE OUT (REAR)
(Sold separately)
(Vendu séparément)
(Vendido aparte)
(los verkrijgbaar)
Front speakers
Haut-parleurs avant
Altavoces delanteros
Voorluidsprekers
Rear speakers
Haut-parleurs arrière
Altavoces traseros
Achterluidsprekers
to the +12 V power terminal which is energized in the accessory position of the ignition key
à la borne d'alimentaton de +12 V qui est énergetisée quand la clé de contact est sur la position accessoire
a un terminal de alimentación de +12 V que se energice al poner la llave de encendido en la posición para accesorios
naar een (+) 12 V accu-aansluiting, die onder spanning komt wanneer het kontaktsleutelтje in de "ACC" stand wordt gezet
Red
Rouge
Rojo
Rood
Fuse (1 A)
Fusible (1 A)
Fusible (1 A)
Zekering (1 A)
to the +12 V power terminal which is energized at all times
à la borne d'alimentation de +12 V qui est énergétisée en permance
a un terminal de +12 V que esté permanentemente energizado
Naar een (+) 12 V accu-aansluiting, die altijd onder spanning staat
Yellow
Jaune
Amarillo
Geel
Fuse (3.15 A)
Fusible (3,15 A)
Fusible (3,15 A)
Zekering (3,15 A)
to a metal point of the car
à un point métallique de la voiture
a un punto metálico del automóvil
naar een metalen onderdeel van de auto
Black
Noir
Negro
Zwart
Blue/white striped
Bleu/Rayé blanc
Azul con raya blanca
Blauw/wit gestreept
*1
AMP REM
to a remote control lead of the power amplifier
au fil de télécommande de l'amplificateur de puissance
al conductor de control remoto del amplificador de potencia
naar een afstandsbedieningsaansluiting van de eindversterker
Blue
Bleu
Azul
Blauw
*2
ANT REM
to a power antenna relay control box
au boîtier de contrôle du relais de l'antenne électrique
a la caja de control de relés de la antena motorizada
naar het relaishuis van een automatische antenne
Sky blue
Bleu ciel
Azul celeste
Hemelsblauw
TEL MUTE
to the interface cable of a car telephone
au câble d'interface d'un téléphone pour voiture
al cable de interfaz de un teléfono para automóvil
naar de verbindingskabel van een auto-telefoon

*1 Max. suppy current 0,3 A
Courant maixmum 0,3 A
Corriente máx. de 0,3 A
Max. stroomsterkte 0,3 A

*2 Max. supply current 0,1 A
Courant maximum 0,1 A
Corriente máx. de 0,1 A
Max. stroomsterkte 0,1 A

**Press the reset button on the front panel after completing the connections.**

**Notes on the control leads**

- The power antenna conirol lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function
- A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to its instructions manual.

**Les connexions achevées, appuyer sur la touche de réinitialisation sur le panneau avant.**

**Remarques sur les fils de contrôle**

- Le fil de contrôle de l'antenne électrique (bleu) fournit un courant continu de 12 volts quand le tuner est mis sous tension, ou quand la fonction ATA (activation automatique du tuner) est mise en service.
- Une antenne électrique sans boîtier de relais ne peut être utihsée avec cet appareil. Pour les détails sur l'antenne électrique, se reporter à son mode d'emploi.

**Después de haber finalizado las conexiones, presione el botón de reposición del panel frontal.**

**Notas sobre los conductores de control**

- El conductor de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando active la función de activación automática del sintonizador (ATA).
- Con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relés. Con respecto a los detalles sobre la antena motorizada, consulte su manual de instrucciones.

**Druk na het maken van alle aansluitingen op de terugstettoets op het voorpaneel van dit apparaat.**

**Opmerkingen betreffende de bedieningsaansluitingen**

- Het aansluitsnoer voor de automatische antenne (blauw) levert +12 V gelijkstroom als de tuner wordt ingeschakeld of als de ATA automatische tuner-inschakelfunktie in werking treedt.
- Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken. Zie de gebruiksaanwijzing van de automatische antenne voor nadere bijzonderheden over de antenne.

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# Installation

## Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt, or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

**Mounting angle adjustment**
Adjust the mounting angle to less than 20°.

# Installation

## Précautions

- Choisir soigneusement l'emplacement du montage, de manière que l'appareil ne gêne nullement les mouvements du conducteur.
- Eviter d'installer l'appareil là où il serait soumis à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ni ou il serait soumis à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

**Réglage de l'angle de montage**
Ajuster l'inclinaison à un angle inférieur à 20°.

# Instalación

## Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.

**Ajuste del ángulo de montaje**
Ajuste el ángulo de montaje a menos de 20°.

# Montage

## Voorzorgsmaatregelen

- Kies de plaats voor inbouw zorgvuldig en houd er rekening mee dat het apparaat de bestuurder van de auto vooral niet in de weg mag zitten.
- Monteer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen zoals van direkt zonlicht of de warme luchtstroom van de auto-verwarming. Zorg dat het niet blootstaat aan sterke trillingen of in kontakt komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.

**Inbouwhoek**
Monteer het apparaat in een stand die niet meer dan 20° afwijkt van het horizontale vlak.

## Mounting Example

**Installation in the dashboard**

## Exemple de montage

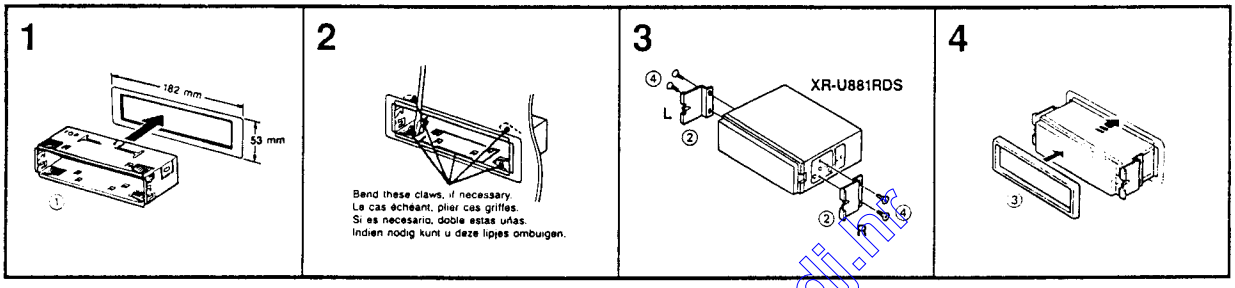
**Encastrement dans le tableau de bord**

## Ejemplo de montaje

**Instalación en el salpicadero**

## Montagevoorbeeld

**Inbouw in het dashboard**




## To Support the Unit

Choose the way A or B.

## Pour installer l'appareil

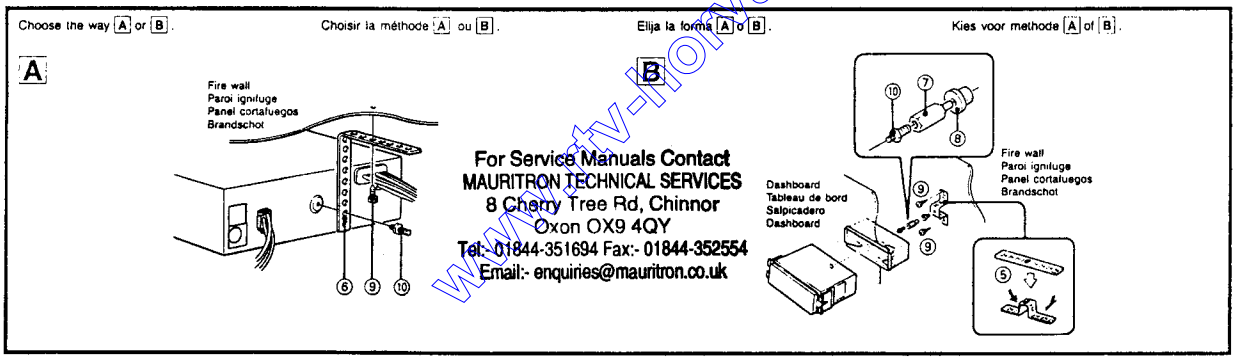
Choisir la méthode A ou B.

## Sujeción de la unidad

Elija la forma A o B.

## Ondersteunen van het apparaat

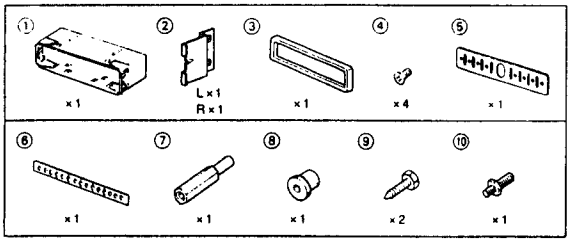
Kies voor methode A of B.




For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

## Supplied Mounting Hardware
## Matériel de montage fourni
## Ferretería de montaje suministrada
## Bijgeleverde montage-onderdelen

The letters in the list are keyed to those in the instructions.
Les lettres de la liste correspondent à celles mentionnées dans les procédures.
Las letras de la lista corresponden a las de las instrucciones.
De nummers in de afbeelding verwijzen naar die in de montage-aanwijzingen.



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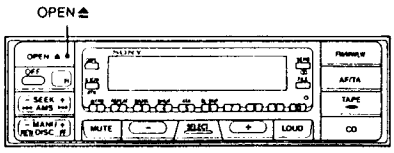
# Detaching and Attaching the Front Panel

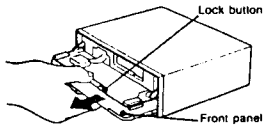



The front panel of this unit can be detached in order to prevent the unit from being stolen.

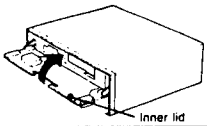
## Detaching the Front Panel

**1** Press the OPEN/ ⏏ button and open up the front panel.

**2** Pull out the panel while pressing the lock button located on the back side of the panel.



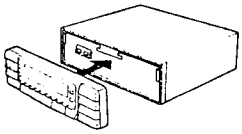

**3** After detaching the front panel, close the inner lid. It automatically closes when you lift it lightly.




Be sure not to drop the front panel when detaching it from the unit.

## Attaching the Front Panel

Push the front panel against the unit, with its inner lid closed, until it clicks.

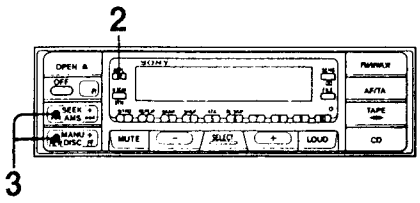


**Caution alarm**
If you turn your ignition key to the OFF position without removing the front panel, the caution alarm will be activated and a beep tone will be heard for a few seconds. (Only when the POWER SELECT switch is set to the ON position)

**Notes**
- The front panel and the inner panel close automatically, after about 30 seconds if it is left open. When the front panel is opened, none of the function buttons except the OPEN/ ⏏ button will function.
- Make sure that the front panel is right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it to the unit. It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied carrying pouch.
- If you keep the OPEN/ ⏏ button pressed for more than two seconds, the front panel will open without ejecting the cassette.



# Setting the Clock



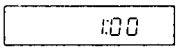

The clock has a 12-hour digital indication.

For example, set it to 10:08.

**1** Turn the ignition key to the ON position.

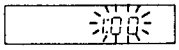
**2** Press the DSPL button if the clock indication does not come on.

DSPL



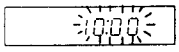

**3** Press the DSPL button for more than 2 seconds.

DSPL

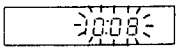



While holding down the DSPL button,

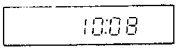
Press SEEK ⏮ AMS ⏭ to set the hour digits
(to go back) (to go forward)




Press MANU ⏮ DISC ⏭ to set the minute digits
(to go back) (to go forward)




**4** The clock starts activating when you take your finger off the DSPL button.




**Notes**
- You cannot set the clock with the remote commander.
- If the POWER SELECT switch of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you turn on the radio, start the CD play, or play back a tape.



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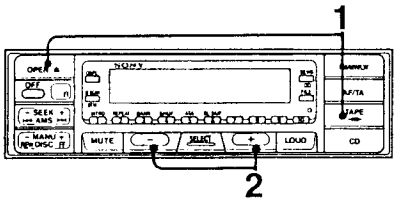
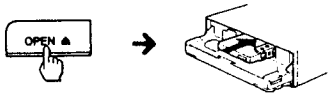
Cassette Deck Operation

# Listening to the Tape Playback




**1** Insert a cassette into the cassette slot.




When a cassette is inserted, the front panel automatically closes and the playback starts.

**If a cassette is already inserted**

The ◀◀ indication appears on the display window if a cassette is inserted.

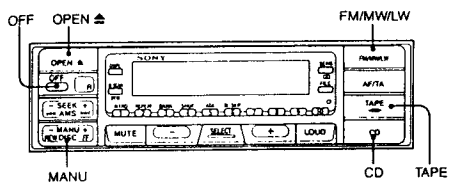
**2** Adjust the volume with ⊖ or ⊕.

**Getting the clock indication during a tape playback**

DSPL

Press again to return to the previous indication

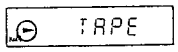




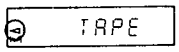

## Other Operations

| | |
|---|---|
| To fast-forward | → MANU ⏭ DISC |
| To rewind | → MANU ⏮ DISC |
| To listen to the reverse side of a cassette | → TAPE |

**Tape transport direction indication**




The side facing up is being played.




The side facing down is being played.

## Stopping the Tape Playback

| | |
|---|---|
| To stop the tape and listen to the radio | → FM/MW/LW |
| To stop the tape and listen to the CD | → CD |
| To stop the tape and turn the unit off | → OFF |
| To listen to the tape again | → TAPE |
| To eject the tape | → OPEN ⏏ |

**Notes on the OPEN/ ⏏ button**
- If you leave a cassette in the cassette slot for more than 30 seconds after pressing the OPEN/ ⏏ button, the unit will automatically take in the cassette and close the front panel.
- When the front panel is opened, none of the control buttons except the OPEN/ ⏏ button will function. You cannot operate the remote commander either.
- If you wish to close the front panel without inserting a cassette to the unit, lift up the front panel gently with your finger and it will close automatically.





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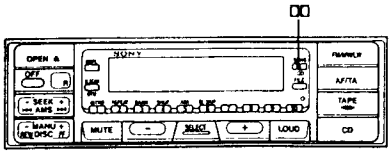
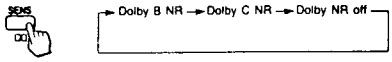


## Auto-metal Selection Function

This unit has an auto-metal selection function in which the unit automatically detetcts normal, $CrO_2$ and metal tapes. The deck will be adjusted just by inserting a cassette into the slot. When you insert either metal or $CrO_2$ cassette, the "METAL" indication will come on the display window for a few seconds.

## Listening to a Tape Recorded in the Dolby-NR System

This unit adapts to the tapes recorded in the Dolby B and Dolby C NR system.

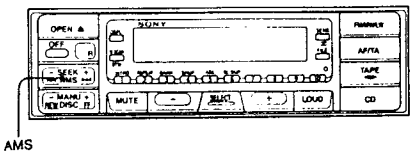



The Dolby noise reduction system reduces the hiss noises which occur during the tape playback in the treble and bass areas.
This system emphasizes the treble area during the recording and returns it to the original level at the playback.
Therefore, when you listen to the tapes which are recorded in the Dolby NR system, be sure to use the Dolby NR system during a playback as well.





# Locating a Desired Track —AMS Function




The AMS (Automatic Music Sensor) enables you to locate the beginning of up to 9 tracks.

During playback, press the AMS button for the same number of times as the number of tracks you wish to skip.

To locate the beginning of the tracks ahead →

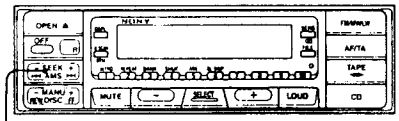
To locate the beginning of the previous tracks →

Be sure to include the current track in the number of the tracks you wish to skip.

**The AMS may not function properly and the track starting positions may not be located in the following cases:**
- Tapes which contain noises between the tracks are used.
- Tapes which contain less than 4 second blank spaces in between the tracks are used.
- When you press the AMS button immediately before or after the track which you wish to locate.

**The unit may consider the following as the blank spaces between tracks and start playback:**
- Long silent music sections on a track
- Quiet sections or a continuous low volume sound on a track.
- Tracks which contain a gradual increase and decrease of the sound volume.

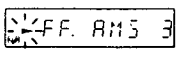


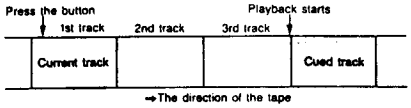



## Examples of Locating the Beginning of a Track

### Cueing the track after skipping three tracks

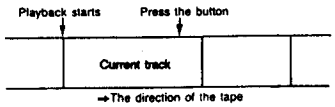
Press three times.




### Cueing the beginning of the current track

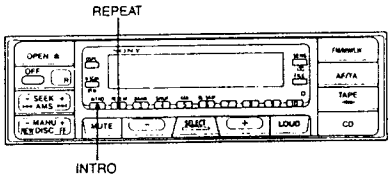
Press once.





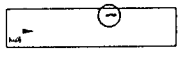



# Playing in Other Modes




## Searching for a Desired Track by Listening to the First 10 Seconds of Each Track —Intro Scan Function

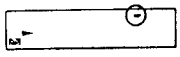
During playback



The first 10 seconds of all the tracks will be played in order from the next track.
When you find the track of your choice, press the button again.
The deck will go back to the normal mode.

**Note**
The intro scan function will be canceled if you turn off the unit by pressing the OFF button or turning the ignition key to the OFF position and leaving it for more than 8 seconds. However, the blank skip and ATA function will not be canceled unless each button is pressed once again.

## Listening to the Currently Playing Track Repeatedly —Repeat Play Function



When the track is over, it will return to the beginning and will be repeated again. To cancel this mode, press the button again.





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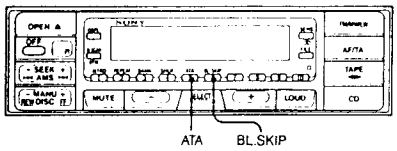



## *Turning on the Radio while the Tape is Being Fast-wound*—*ATA Function*

If you press either FF or REW during the tape playback, the radio will come on automatically. When the tape playback starts, the radio will be turned off automatically. To cancel the mode, press the button again.

## *Skipping Blank Spaces of the Tape Automatically during Tape Playback*
### *—Blank Skip Function*

If there is a blank space longer than 8 seconds on a tape, the unit automatically fast forwards the tape to the next track and the playback will start. To cancel the mode, press the button again.

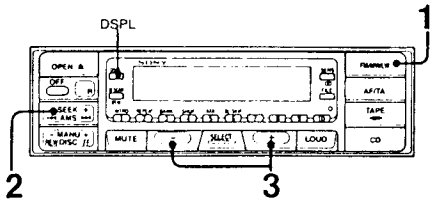
**Getting a radio frequency indication on the display window while the radio is turned on using the ATA function**

Press the DSPL button several times. The frequency of the last radio program received or the name of the last station received will be indicated on the display window for a few seconds.





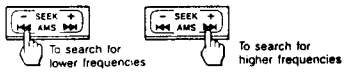
# *Searching for the Stations Automatically*
### *—Automatic Tuning*




If you do not know the frequency of the station you wish to tune in, it is useful to use the Automatic Tuning function.

**1** Select the desired band from FM1, FM2, MW and LW. Each time the button is pressed, it changes in the order of FM1 → FM2 → MW → LW.

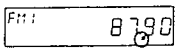
**2** Press – SEEK + button.




The scanning stops when a station is received. Press the button repeatedly until the desired station is received.

**3** Adjust the volume with ⊖ or ⊕.

**While receiving FM broadcasting**




The "ST" indication will appear when an FM stereo program with sufficient signal strength is tuned in. The program will be received in stereo.

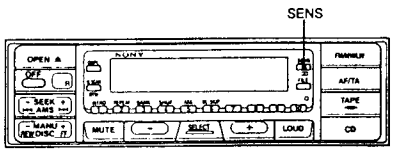
**Getting the clock indication while listening to the radio**

Press the DSPL button. Each time you press the button, the display mode changes as follows:

Station name display mode* → Frequency display mode → Clock display mode

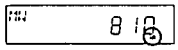
*Refer to page 31 for the station name display mode.






## *Avoiding the Automatic Tuning from Stopping on Stations Too Frequently*
### *—Local Seek Mode*

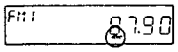
Press SENS to get the LCL indication.




The mode changes to that of the local seek mode where only the stations with relatively strong signals are tuned in. It functions only when the Automatic Tuning is in operation.

## *If FM Stereo Broadcasting is Difficult to Receive*—*Monaural Mode*

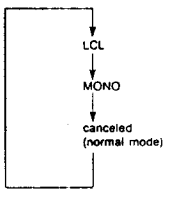
Press SENS to get the MONO indication.



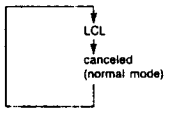

The sound improves, but it will become monaural.

**When you press the SENS button, the mode changes as follows:**

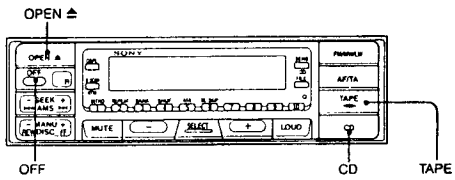
While receiving FM broadcasting




While receiving AM broadcasting






## *Other Operations*

**To stop the radio and listen to tape playback**

If a cassette is loaded → TAPE

If a cassette is not loaded → OPEN ≜

To stop the radio and listen to a CD →

To turn off the radio and cut the power supply → OFF





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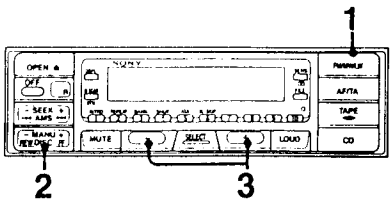
# Tuning in by Adjusting the Frequency

*—Manual Tuning*




Use the Manual Tuning if you know the frequency of the desired station.

**1** **Select the desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡FM2 ➡MW ➡ LW.

**2** **Press the – MANU + button.**

To search the lower frequencies

To search the higher frequencies

If you keep it pressed, the frequency changes rapidly.

**3** **Adjust the volume with ⊖ or ⊕.**

**Note**
You cannot use the Manual Tuning with the remote commander.

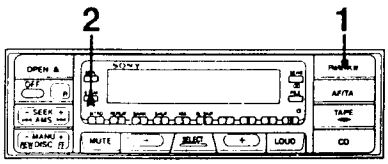
**PREVENTING ACCIDENTS!**
While you are driving, the use of the Automatic Tuning and the BTM function is recommended in favor of the Manual Tuning.





# Memorizing the Stations Automatically

*—BTM (Best Tuning Memory) Function*




Best receiving stations are automatically searched and memorized on each band (FM1, FM2, MW and LW). Up to 10 stations on each band can be stored on the preset buttons 1 to 10 in the order of frequency.

**1** **Select the desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡ FM2 ➡ MW ➡ LW

**2** **Keep the BTM button pressed for more than 2 seconds.**

**The receivable frequencies of FM1 and FM2 are the same** Therefore, 20 stations can be memorized on FM.

## *Checking in Order, All the Stations Stored in the Memory—Memory Scan Function*

Press lightly

The tuner will receive in order, all the stations stored in the memory for 5 seconds each.

To cancel
Press the M. SCAN button lightly once more. The memory scan will be canceled and you will be able to listen to the station currently being received.

**Note**
There may be cases where even the stations which are stored in memory cannot be received due to weak signals in the vicinity of your car.



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**— The BTM function — how this function operates —**

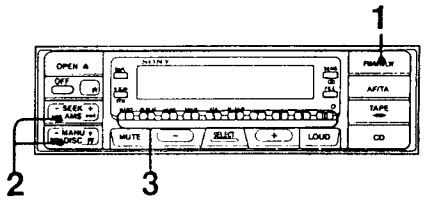
It starts searching stations from the lowest frequency of the currently tuned in band. When a station is located, it will be stored in the memory on the preset button whose number is indicated on the display window. If there is no preset number indicated, it will be stored in the memory on the preset button number 1 onward. It continues to store the stations in the memory until all the preset buttons are occupied.
For example, if the FM1 band was selected, it will continue until the preset button 10 on the FM2 band is occupied. When all the memory preset buttons are occupied with the memories before the highest receivable frequency is searched, the unit will start searching for higher frequencies from where it was left off. This is to check if there are any more stations with better reception than the ones already stored in the memory.
If a station with better reception is found, the unit will store it in the memory in place of a station with an inferior reception.
Lastly, it rearranges all the stations in the order of frequency from the lowest and stores them in the memory. The whole operation is now completed. The stations with better reception are stored in the memory on the preset buttons in the order of frequency.

**Notes**
- There may be a situation where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such cases, the BTM operation may stop without all the buttons being stored with a memory.
- If you start the BTM operation from the FM1 band, it will continue to store stations in memory to the FM2 band. Care must be taken if you wish to keep the stored stations on the FM 2 band.
- If you start the BTM operation from the FM 2 band, it will stop when all the memories on the FM 2 band are occupied. It will not continue to the FM 1 band.





# Memorizing Only Desired Stations

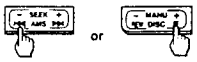



Up to 10 stations on each band (FM1, FM2, MW, and LW) can be stored in the memory in order of your choice (a total of 40 stations).

For example, store a station on the preset button 1.

**1** **Select a desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡ FM2 ➡ MW ➡ LW.

**2** **Tune in the station which you wish to store in the memory. (page 21 or 24.)**



**3** **Keep the preset button pressed for about 2 seconds until the "MEM" indication comes on the display window.**

The number of the preset button of which you are pressing now comes on the display window. When the "MEM" indication comes on, the station is stored in the memory and the operation is now complete. The "MEM" indication goes off after a while.

Repeat the same procedure to store other stations.

**Only one station per band (FM1, FM2, MW and LW) can be stored in the memory on each preset button**
If you try to store another station on the same preset button, the previously stored station will be erased.

**If the station to be memorized is a RDS station**
If the unit is tuned to a FM band and a station to be memorized happens to be a RDS station transmitting the AF data, the unit will memorize the AF data as well. (See "Network Stations Memory" page 33.)





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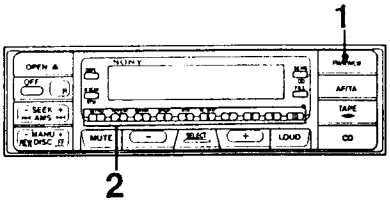
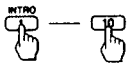
# Receiving Stations Stored in the Memory




**1** **Select the desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡FM2 ➡MW ➡ LW.

**2** **Press the preset button lightly on which the desired station is stored.**




Note
There may be cases where even the stations which are stored in the memory can not be received due to weak signals in the vicinity of your car.

## Receiving in Order the Stations Stored in the Memory — *Preset Search Function (Remote Commander Only)*

The number will advance in the following order:

1 ➡ 2 ➡ 3 ➡ ... ➡ 8 ➡ 9 ➡ 10 ➡ 1 ➡ ...
(number of the preset buttons)

The number will reverse in the following order:

1 ➡ 10 ➡ 9 ➡ ... ➡ 4 ➡ 3 ➡ 2 ➡ 1 ➡ ...

If you keep the button pressed, it will go faster





# Overview of the RDS Function

## What is RDS?

The RDS (Radio Data System) is a radio digital information system developed and introduced in 1987 by the EBU (European Broadcasting Union). Using the 57 kHz sub-carrier of FM broadcasting, the RDS let you receive a variety of information such as station names and traffic information. It also offers useful functions such as automatic re-tuning of the best available signal carrying the chosen program.

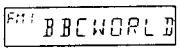
The RDS digital data includes the followings:

| | |
|---|---|
| PI | Program Identification |
| PS | Program Service Name |
| AF | List of Alternative Frequencies |
| TP | Traffic Program |
| TA | Traffic Announcement |
| PTY | Program Type |

The following functions are available with this unit using the RDS data. Refer to the marked pages for the operational instructions.

## Station Service Name Display *(page 31)*

This function displays the name of the station which is currently tuned in on the display window.



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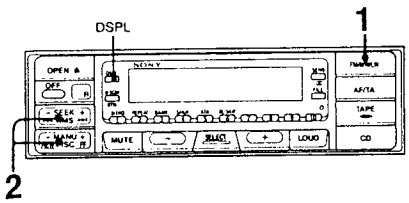
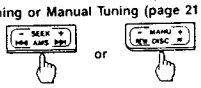
# Station Name Display




**1** **Press the FM/MW/LW button to select FM1 or FM2.**

**2** **Tune in a desired station by using the Automatic Tuning or Manual Tuning (page 21 or 24).**



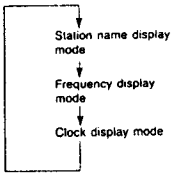

If the unit is set in the station name display mode and a station transmitting the RDS data is received, the name of that station will be displayed on the display window.

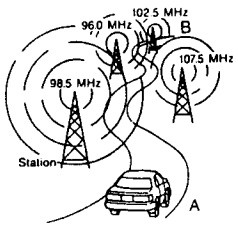
**When the "--------" indication appears on the display window in the station name display mode**
The received station is not a RDS station.

**When the unit is in the frequency display mode and a RDS station is received**
The "♯" display will come on to indicate that a RDS station is received. To find out the name of the station, press the DSPL button to change the display mode.

**Notes**
- RDS data can be received only on the FM band and not on the MW and LW bands.
- The RDS functions of this unit will not be activated if the FM station being received is not transmitting the RDS data. It may also not work properly in an area where the RDS transmissions are in the experimental stage.

**You can change the display mode by pressing the DSPL button**
Each time you press the button, the display mode changes as follows:




## Automatic Re-tuning — *AF Function (page 32)*

This function automatically re-tunes in a station with a relatively stronger signal within the same broadcasting network using the PI and AF data.
The illustration above shows an example of a car passing through an area with four stations of the same broadcasting network between points A and B.
As the car moves on, the reception frequency of the station in the network changes from 98.5 MHz to 107.5 MHz then to 96.0 MHz and to 102.5 MHz.
By using the AF function, the driver will be able to keep listening to a program in the same broadcasting network without tuning in the station manually every time he enters a different frequency zone between points A and B.

## Traffic Information Reception — *TA Function (page 34)*

This function searches and stands by for a traffic information station using the TP and TA data.
Using this function, the unit automatically seaches the station and changes its mode to receive the traffic information when the broadcasting starts while you are listening to a tape or CD.







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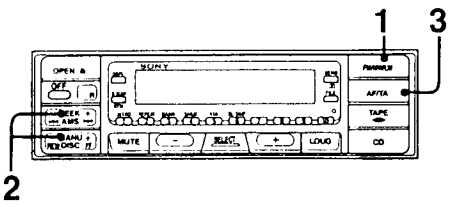
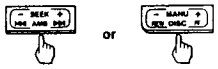
# Automatic Re-tuning — AF Function




**1** **Press the FM/MW/LW button to select the FM1 or FM2.**

**2** **Tune in a desired RDS station by using the Automatic Tuning or Manual Tuning. (page 21 or 24)**



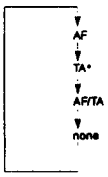

**3** **Press the AF/TA button to get the "AF" indication.**

If the signal level of the tuned in RDS station falls below a certain point, the unit will begin to search for an alternative station with a stronger signal in the same network from the AF data (List of Alternative Frequencies). If a stronger signal station is found, the unit re-tunes in the station.

**Notes**
- When the "AF" indication is on the display window, only the RDS station can be tuned in by the Automatic Tuning.
- If the tuned in RDS station is not transmitting the AF data, this function will not work.
- If you press the AF button while the MW or LW band is tuned in, the FM1 band will be automatically selected.

**The AF/TA button**
Each pressing on the button changes the function cyclically as follows:

Indication




*See page 34 for the TA function.

## Network Stations Memory

When the unit stores the RDS station transmitting the AF data on the preset button, it stores not only its frequency but also its PI and the AF data. The AF data carries the information of the list of the frequencies of the stations within the same broadcasting network. The unit will store the data in its memory whether the AF function is activated or not.

## Getting the Stored RDS Stations in Tune from the Broadcasting Networks

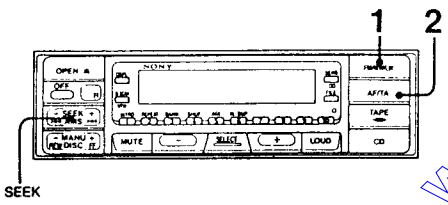
**Be sure to press the preset buttons after pressing the AF/TA button to activate the AF function.** The AF function will select a better signal station by re-tuning within the network stations. If you press the preset buttons without activating the AF function, you will not be able to use this function. In this case you will only get the individual stations which were tuned in on the previous occasion. The unit will not re-tune to the other stations in the network even if they are stored in the memory.







# Receiving Traffic Information — TA Function




## Receiving a Traffic Information Station

**1** **Press the FM/MW/LW button to select the FM1 or FM2.**

**2** **Press the AF/TA button to get the "TA" indication.**

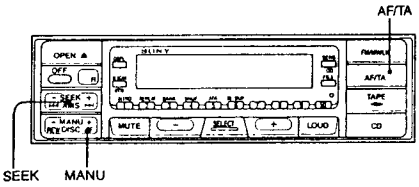
The search for a traffic information station will start. When a RDS station transmitting the TP data is found, the search stops and the "TP" indication will come on to the display window.

The "TA" indication will flash while the traffic information broadcasting is on the air. It will stop flashing when the broadcasting is over.

**To search for another RDS station transmitting traffic information**
Press the SEEK button while the "TA" indication is still on the display window.

**Notes**
- Do not activate the TA function in an area where there is no traffic information broadcasting service available. If you do so, the unit will keep searching for it and other stations cannot be tuned in.
- If you activate the TA function while the MW or LW band is tuned in, the FM1 band will be automatically selected and start searching for a traffic information station.

**"TP" indication**
This indicates that the currently tuned in RDS station offers traffic information service.




## Standing by for Traffic Information while Listening to a Tape or CD

**Press the AF/TA button to get the "TA" indication during a tape playback or CD play.**

The playback continues while the unit searches for a traffic information station.

**When a station is found:**
The "TP" indication will come on the display window.

↓

**When a traffic information broadcasting starts:**
The "TA" indication will start flashing. The tape or CD play stops and the traffic information will be heard.

↓

**When the broadcasting is over:**
The tape playback or CD play resumes from where it was left off.

**To cancel the stand-by mode**
Press the AF/TA button to turn off the "TA" indication.

**Changing the display to that of the frequency or station name during tape playback or CD play**
Press the DSPL button few times. While the frequency or station name is being displayed, the SEEK, MANU buttons and preset buttons will function in the same way as they do in the radio reception.







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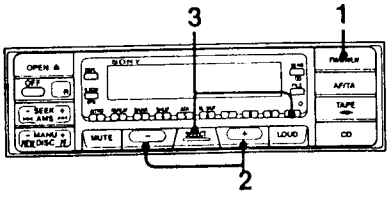



### *Traffic Information is Heard at the Preset Volume Level*

When traffic information broadcasting strats, you can hear it at the preset volume level even if the volume control on the front panel has been turned down. (If you are listening to other sources with higher volume level, the level will not change.) The preset volume level can be set in the following manner.

1 Press the FM/MW/LW button to select FM1 or FM2.
2 Adjust the volume to the desired level with − or + button.
3 Press the preset number 10 button while pressing the SELECT button.
A beep sound will be heard and the setting is completed.

### *PTY (alarm) Data Reception*

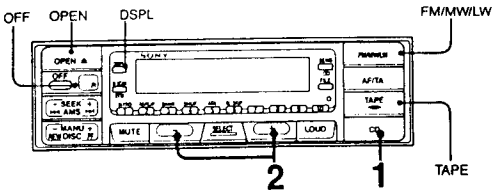
In case of emergency, or in a situation where there may be danger from natural disaster in the area, the RDS stations will transmit the PTY data information to warn drivers that they are in danger. The data includes the character display and the interruption signal for automatically turning on the radio. **This data can be received while the AF or TA function is being activated.** If the unit receives the PTY data from a RDS station during tape playback or CD play, the "AF" indication on the display window will start flashing and tape playback or CD play stops. The radio will be automatically turned on to receive the emergency announcement from the station.



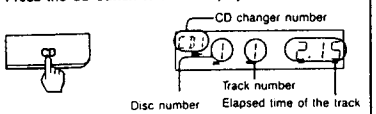


## *Listening to the CD Play*

***—When Optional Sony CD Changers are Connected***



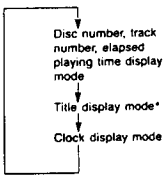

**1** Press the CD button to start CD play.




**2** Adjust the volume with ⊖ or ⊕.

If it is set in the normal playing mode, after the end of a disc, the disc with the next number shown will be automatically played. If two or more CD changers are connected, after the end of the last disc, the first disc in the CD changer with the next number shown will be played. The order of the CD play can be rearranged by changing the playing modes. For details, see "Playing in Other Modes." (page 40)

**Getting the clock display while listening to a CD**
Press the DSPL button. Each time you press the DSPL button, the display mode will change cyclically as follows:




* See pages 43, 44 and 47 for the details about the title display mode.

### *Other Operations*

**To stop the CD play and listen to a tape**

If a cassette is already loaded → TAPE

If a cassette is not loaded →

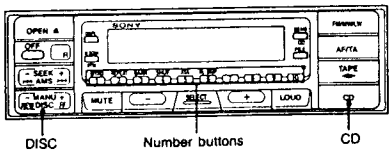
To stop CD play and listen to the radio → FM/MW/LW

To stop CD play and turn the unit off → OFF





## *Locating a Desired Disc, Track, or Part of a Track*




The useful functions of this unit enables you to quickly search a disc, track, or parts of track which you wish to listen to.

### *Locating a Disc of Your Choice Sequentially*

Press the DISC button lightly during CD play.

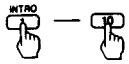
To search previous disc numbers → MANU

To search the disc numbers ahead → MANU

You can search a disc by displaying the names of discs registered with the Custom File Function. For details, see page 43.

### *Locating a Disc Directly*

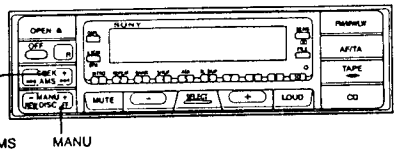
Press the corresponding disc number button for more than two seconds during CD play.




### *Listening to the Discs in Another CD Changer (when two or more changers are connected)*

Press the CD button during CD play.

The CD changer number changes.




### *Locating the Beginning of a Track*

***—AMS Function***

Press the AMS button during CD play.

To listen to the current track again from the beginning → SEEK AMS

To search for previous tracks → SEEK AMS (Keep on pressing)

To listen to the next track from the beginning → SEEK AMS

To search for the beginning of the track ahead → SEEK AMS (Keep on pressing)

**Note**
When you keep on pressing the AMS button and come to either the beginning or end of a disc, you will not be able to go any further.

### *Searching for a Desired Part of Track*

***—Manual Search***

Keep on pressing the MANU button during CD play.

To go ahead → MANU (Keep on pressing)

To go back → MANU (Keep on pressing)

The elapsed playing time of the track comes on to the display window during the manual search.

**Note**
You cannot use the Manual Search on the remote commander.







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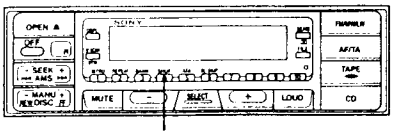
# Playing in Other Modes




## Playing Discs Randomly—Shuffle Play Function

### Playing the tracks on a disc randomly —Inter disc shuffle play

Press SHUF to get the "SHUF 1" indication.

When all the tracks on a disc have been played, it goes on to the next disc.

### Playing the tracks on all discs in currently selected CD changer randomly—Inter changer shuffle play

Press SHUF to get the "SHUF 2" indication.

### Playing the tracks on all discs in all CD changers connected randomly—All shuffle play (When two or more CD changers are connected)

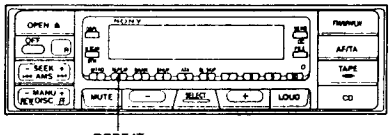
Press SHUF to get the "SHUF 3" indication.

**The function of the SHUF button changes cyclically as follows:**

SHUF1 (Inter-disc)
↓
SHUF2 (Inter-changer)
↓
SHUF3* (All-shuffle)
↓
Cancel (Normal CD play)

* All-shuffle play (SHUF3) mode functions only when two or more changers are connected to the unit. When only one changer is connected, the "SHUF3" indication will not come on. In this case, if you press the button once again when the SHUF2 indication comes on, the shuffle play will be canceled.






## Playing a Disc Repeatedly —Repeat Play Function

### Playing the current track repeatedly—Track repeat

Press REPLAY to get the "REP1" indication.

When the current track is finished, it will go back to the beginning and start playing the same track again.

### Playing the current disc repeatedly—Disc repeat

Press REPLAY to get the "REP2" indication.

When the last track of the current disc is finished, it will go back to the beginning of the first track of the same disc and start playing again.

### Playing the discs in currently selected CD changer repeatedly—CD changer repeat (When two or more CD changers are connected)

Press REPLAY to get the "REP3" indication.

When the last disc of currently selected CD changer is finished, instead of moving to another changer, it goes back to the first disc of same changer and starts playing again.

**The function of the REPEAT button changes cyclically as follows:**

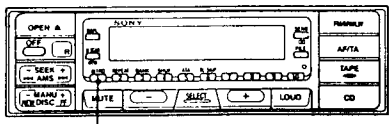
REP1 (Track)
↓
REP2 (Disc)
↓
REP3* (Changer)
↓
Cancel (Normal CD play)

* CD changer repeat (REP3) mode functions only when two or more changers are connected to the unit. When only one changer is connected, the "REP3" indication will not come on. In this case, if you press the button once again when the REP2 indication comes on, the repeat play will be canceled.





# Overview of the Custom File Function




## Searching for a Desired Track by Listening to the First 10 Seconds of Each Track —Intro Scan Function

Press INTRO while listening to a CD.

The unit will play in order the first 10 seconds of each track on a disc.
When the first 10 seconds of last track on a disc is played, it will move on the the next disc.
When the first 10 seconds of last track which is on the last disc in a CD changer is played, it will move on to the next CD changer (only when two or more CD changers are connected).

**When you find the desired track**
Press the INTRO button once more. The intro scan function will be canceled and you can continue to listen to the track.

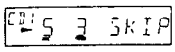


## CD Title Display Function
*—Disc Memo Function (page 44)*

You can put a title of your own choice to a CD (one title per CD). The title can be displayed on the display window while the CD is being loaded and played.

## Music Play and Skip Function
*—Delete Bank Function (page 48)*

Each track can be set to be either played or skipped while the CD is playing, so that only desired tracks on the CD can be played.




Indications while the Delete Bank function is being set.





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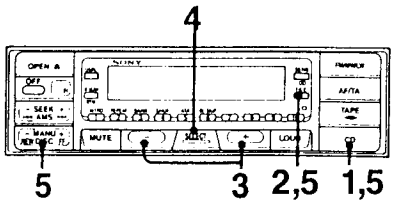
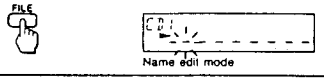
# Displaying the Title of Each Disc



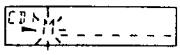

## Putting Your Personalized Titles onto the Discs

**1** Play the disc that you wish to title.

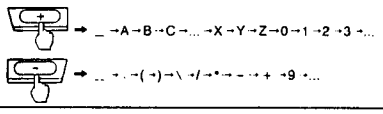
**2** Press the FILE button for more than two seconds to enter the name edit mode.




**3** Press either (−) or (+) to select the desired letter and number.



Each time you press the (−) or (+) button, characters will come on in the following order:




**4** Press the SELECT button after locating the desired letter or number.

The blinking part will move to the next space on the right. Repeat steps 3 and 4 to enter the entire titles. Up to 8 characters can be used per disc.

**Notes**
- If you press the SELECT button when the eighth letter (farthest right letter) is blinking, the blinking part goes back to the first letter (farthest left letter).
- If you wish to put a blank space after a character, select the " ".



**5** Register the title. Use one of the following methods (1) through (4).

(1) Press the FILE button for more than two seconds.

The unit will go back to the normal CD playing mode.

(2) Press the FILE button lightly.

(Press lightly)

The unit enters the PLAY/SKIP mode in which the play and skip modes can be set. (Continue to step 4 in "Setting of the Play and Skip Modes on the Discs" of page 48)

(3) Press the DISC button.

(Press lightly)

You can change the disc and continue to put the titles to the discs.

(4) Press the CD button. (Only when two or more CD changers are connected.)

You can go to the next CD changer and the unit will go back to the normal playing mode.



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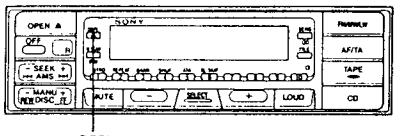



## Displaying the Title

While the CD is playing, press the DSPL button to enter the title display mode.

If the title of a disc is not registered, "-------" will come on the display window.

**While loading the discs**

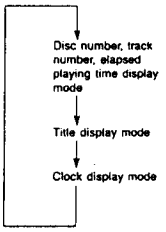
Whatever the display mode is, the indication automatically changes as follows:

Title of the disc (2 seconds) → Disc and track number (2 seconds) → Display mode currently selected

The registered titles of the discs may not come on the display immediately during loading. This occurs because the unit displays the title after identifying the disc by reading the TOC* (Table of Contents) information of the disc. Therefore, while the CD changer is loading the disc for the first time, the registered title of the disc cannot be displayed. Once the disc has been loaded and played, the TOC information would have been read and the title will be displayed even while the disc is being loaded.

**Each time you press the DSPL button while the CD is playing**

The indication on the display window will change cyclically as follows:




* The TOC information of the disc contains the total length of playing time and the codes to search the beginning and end of each track, and so on.

**Where are the contents of the custom file stored?**

The information registered in the custom file will be stored in the memory of currently selected CD changer. Therefore, if you play a custom-filed CD in a CD changer which is not connected with a UNILINK cable to each other such as in another car, you will not be able to have its title displayed. The Delete Bank function will not be activated either. However, you will be able to have the CD titles displayed even if they are not loaded in their original CD changers provided that the CD changers are connected to each other by a UNILINK cable.

**You can register the maximum of 110 discs on one CD changer**

If you try to register more than 110 discs, the unit will display "FULL" on the display window and will not accept the command for custom-filing. In this case, you will have to erase the memory of the other discs before you enter the new ones. See page 52 for details on erasing the memory.







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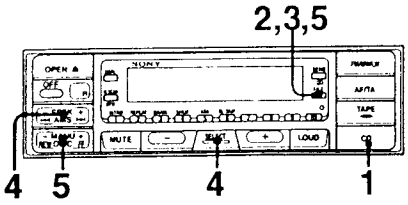
# Playing Only Desired Tracks on a Disc




## Setting the Play and Skip Modes on the Discs

**1** Play the disc to which you wish to set these modes.

**2** Press the FILE button for more than two seconds and put the titles onto the discs.

See page 44 for details about putting a title. If the title has already been registered, go to step 3.

**3** Press the FILE button lightly to enter the PLAY/SKIP edit mode.
When the unit enters the PLAY/SKIP edit mode, the indication on the display window will look like the illustration below.

PLAY/SKIP edit mode

**4** Press the AMS button to select the track number you wish to skip and press the SELECT button.

The indication changes from "PLAY" to "SKIP". If you wish to return to "PLAY", press the SELECT button again.

Repeat the operation in this step to enter either the "PLAY" or "SKIP" mode on all the tracks.

**Notes**
- When the title is not registered, you cannot enter the PLAY/SKIP edit mode even if you press the FILE button.
- You can only set the "SKIP" mode onto up to 24 tracks. If a disc has more than 24 tracks, you will not be able to set the SKIP mode on the tracks after the 24th track.
- You cannot set the SKIP mode onto all of the tracks on a disc.



**5** To register the settings, use one of the following methods ① through ④.

① Press the FILE button for more than two seconds.

The unit will go back to the normal CD playing mode.

② Press the FILE button lightly.

(Press lightly)

The unit re-enters the name edit mode. See page 44.

③ Press the DISC button.

(Press lightly)

You can change the disc and continue to put the titles to the discs.

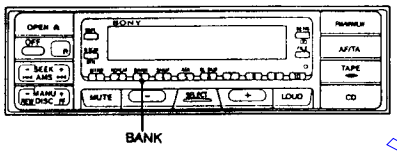
④ Press the CD button. (Only when two or more CD changers are connected.)

You can go to the next CD changer and the unit will go back to the normal playing mode.





# Editing a Custom File



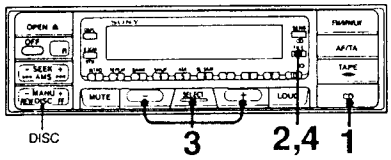

## Playing with the Delete Bank Function

Press the BANK button to get the "BANK" indication.

The discs will be played according to the settings of the PLAY/SKIP edit mode.
To cancel, press the BANK button again.

**Note**
When you press the BANK button and the "BANK" indication does not come on the display window, the unit will not play the disc with the Delete Bank function even if the PLAY/SKIP edit mode was previously set to the disc.





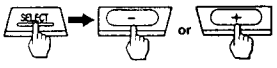

When you change the title, the PLAY/SKIP setting of the Delete Bank function will not be erased at the same time.

## Changing the Title and the Delete Bank Settings

**1** Play the disc you wish to edit.

**2** Press the FILE button for more than two seconds to enter the name edit mode.

**3** Press the SELECT button to make the part you wish to edit flashing. Select the letters and numbers using the ⊖ or ⊕ button.




If you wish to change the titles of other discs, repeat steps 1 through to 3 on the discs after changing them with the DISC or CD button.

**4** Press the FILE button for more than two seconds.

Now the new title is registered.

**Note**
If you wish to change the PLAY/SKIP settings of the Delete Bank function, press the FILE button lightly to enter the PLAY/SKIP mode while the unit is in the name edit mode in the step 2. While checking the disc and track numbers on the display window, change the setting by the AMS and SELECT buttons. Press the FILE button lightly again and the unit will enter the name edit mode again.





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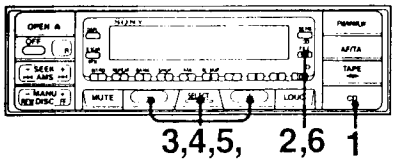


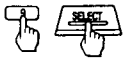

When you erase the title, the PLAY/SKIP mode of the Delete Bank settings will be erased as well.

## Erasing a Title

**1** Select the CD changer and play any disc.

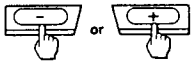
**2** Press the FILE button for more than two seconds to enter the name edit mode.

**3** **Press the number 9 button while pressing the SELECT button.**




The titles stored in the CD changer currently selected will appear on the display window.

**4** **Press the ⊖ or ⊕ button to search for the title you wish to erase.**




**5** **Press the SELECT button for more than two seconds after the title you wish to erase is displayed.**

Repeat steps 4 and 5 on other titles, if necessary.

**6** **Press the FILE button for more than two seconds.**

Now the title and the Delete Bank settings are erased. The unit goes back to the normal CD playing mode.

**The alternative method to erase a title**
You can erase a title by selecting eight "_"s (underbars) as described in step 3 of "Changing the Title and the Delete Bank Settings" (Page 51)



# Maintenance

## Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

***Warning***
Use the specified ampere fuse.
Use of a higher amperage fuse may cause serious damage.

## Cleaning the Head and the Tape Path

Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback.
Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound.
Use a commercially available cleaning cassette.



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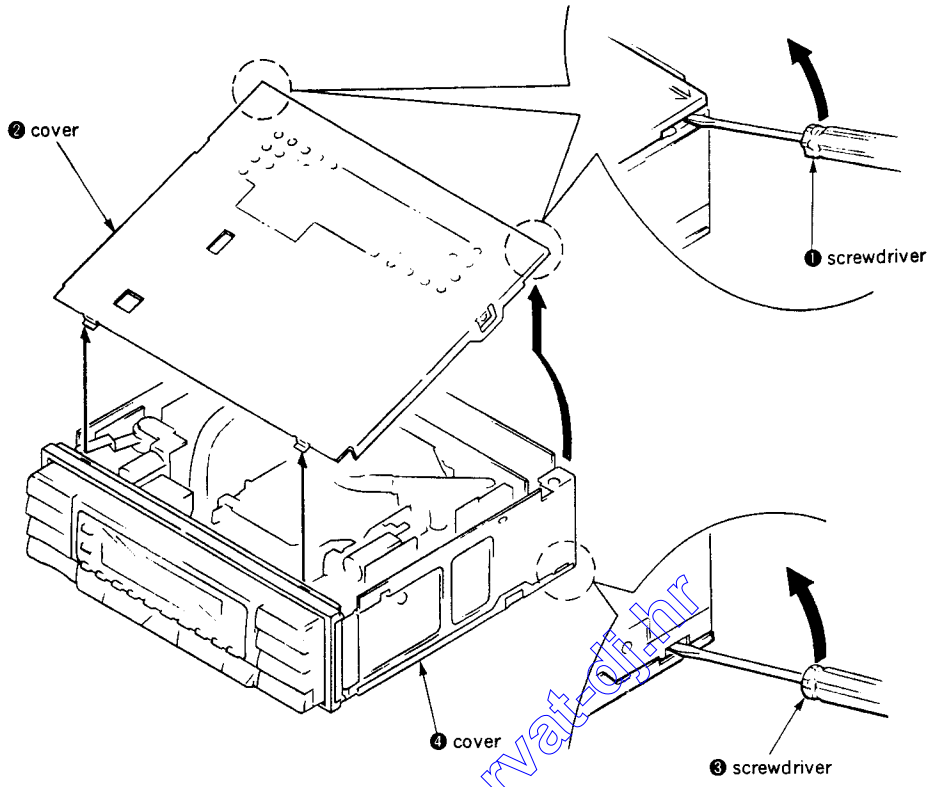
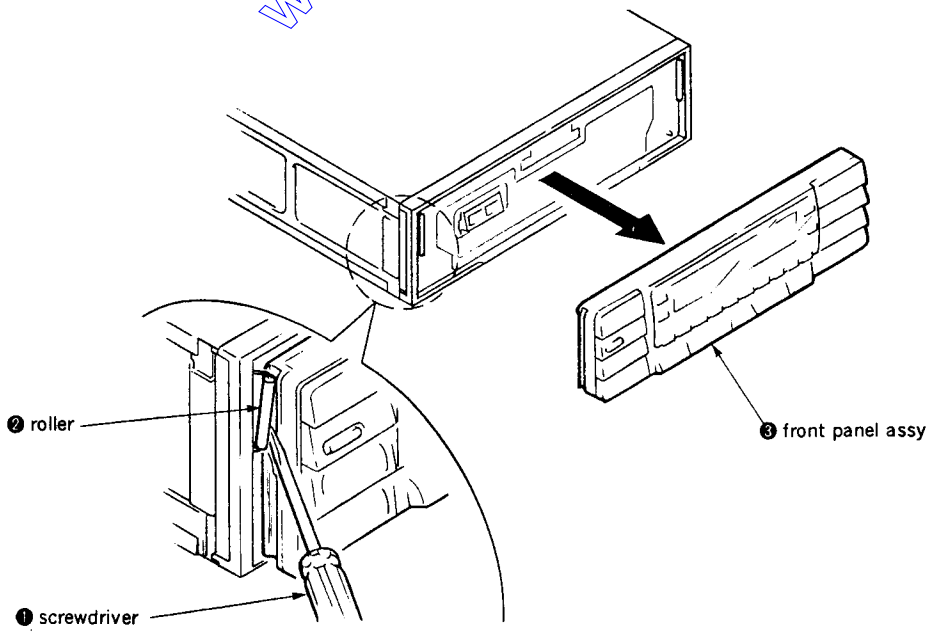
# SECTION 2
# DISASSEMBLY

**Note :** Follow the disassembly procedure in the numerical order given.

## 2-1. COVER




## 2-2. FRONT PANEL ASSY

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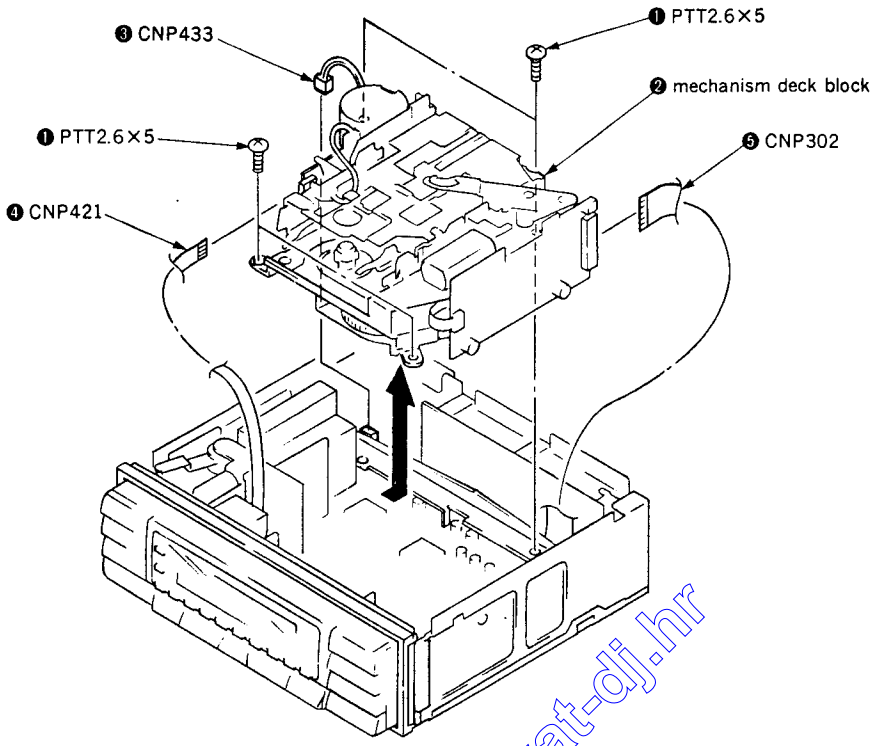
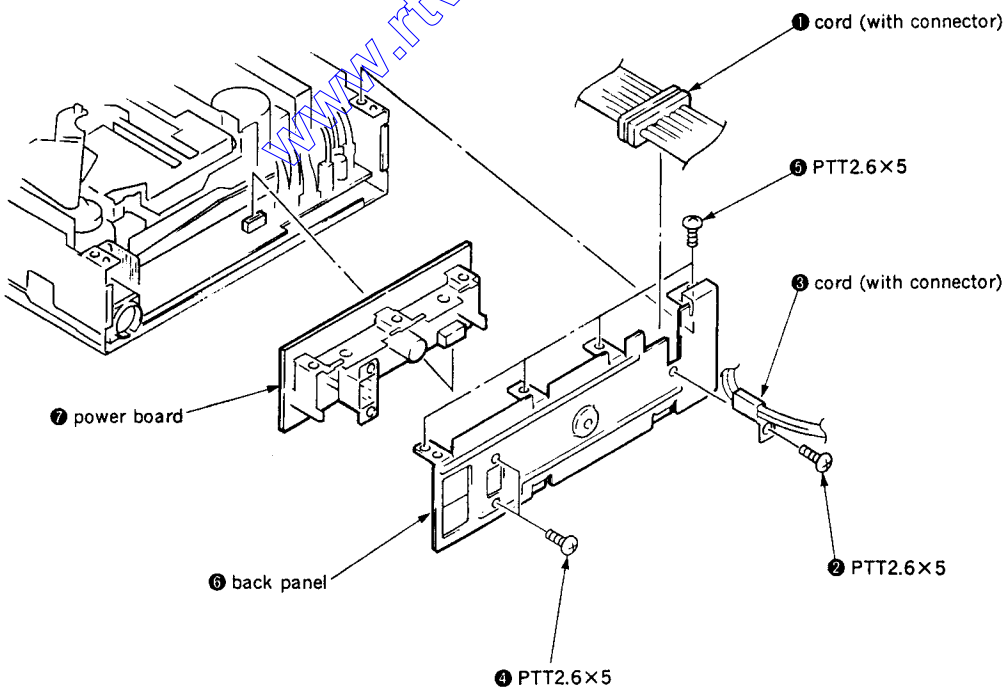
## 2-3. MECHANISM DECK BLOCK




## 2-4. POWER BOARD

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# SECTION 3
# DIAGRAMS

## 3-1. PIN DESCRIPTIONS

### Master Microcomputer IC501 (μPD75116GF-E47-3BE)

<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>63</td><td>POS 3</td><td>I</td><td rowspan="4">Mechanism Deck Position Detection pin.<br><br>(See the table below.)<br>*(With tape rotation in normal direction)<br>
<table>
<tr><th></th><th>EJECT</th><th>STOP</th><th>←</th><th>FF</th><th>←</th><th>REW</th><th>←</th><th>PLAY</th></tr>
<tr><td>POS 0</td><td>L</td><td>L</td><td>L</td><td>H</td><td>H</td><td>H</td><td>H</td><td>H</td></tr>
<tr><td>POS 1</td><td>H</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>H</td><td>H</td></tr>
<tr><td>POS 2</td><td>H</td><td>H</td><td>H</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td></tr>
<tr><td>POS 3</td><td>L</td><td>H</td><td>H</td><td>H</td><td>H</td><td>H</td><td>L</td><td>L</td></tr>
</table>
H : High input, L : Low input</td></tr>
<tr><td>64</td><td>POS 2</td><td>I</td></tr>
<tr><td>1</td><td>POS 1</td><td>I</td></tr>
<tr><td>2</td><td>POS 0</td><td>I</td></tr>
<tr><td>3</td><td>LINK OFF</td><td>O</td><td>Not used.</td></tr>
<tr><td>4</td><td>AMP ON</td><td>O</td><td>Not used.</td></tr>
<tr><td>5</td><td>POWER-ON</td><td>O</td><td>Power ON/OFF Output pin. Set this output "High" to turn power on. Set it "Low" to turn all power off.</td></tr>
<tr><td>6</td><td>ACC-ON</td><td>O</td><td>Button Illumination Power ON/OFF Output pin. Set this output "High" to turn the power on.</td></tr>
<tr><td>7</td><td>$\overline{\text{RESET}}$</td><td>I</td><td>Reset pin.</td></tr>
<tr><td>8</td><td>X2</td><td>—</td><td rowspan="2">Connection pin for System Clock Oscillation. 4.19MHz connection.</td></tr>
<tr><td>9</td><td>X1</td><td>I</td></tr>
<tr><td>10</td><td>DM CLOSE</td><td>O</td><td rowspan="2">Nose Open/Close Motor Control pin.<br>
<table>
<tr><th>DM CLOSE \ DM OPEN</th><th>High</th><th>Low</th></tr>
<tr><td>High</td><td>—</td><td>Close</td></tr>
<tr><td>Low</td><td>Open</td><td>Stopped</td></tr>
</table></td></tr>
<tr><td>11</td><td>DM OPEN</td><td>O</td></tr>
<tr><td>12</td><td>$\overline{\text{SYSTEM RESET}}$</td><td>O</td><td>Pin which resets all of slave microcomputers that are connected and are communicating on the UNILINK BUS. Switching this output from "Low" to "High" level causes resetting. Usually it is kept "High".</td></tr>
<tr><td>13</td><td>SYNC</td><td>O</td><td>Pin which outputs the pulse for determining timing of communication to data line. (UNILINK BUS interface SYNC pin)</td></tr>
<tr><td>14</td><td>MUTE</td><td>O</td><td>Output pin used to enable Audio Muting. This output is kept "High" during audio muting.</td></tr>
<tr><td>15</td><td>CLK VOL</td><td>O</td><td>Pin for Clock Output to the electronics VOL IC (IC 321: LC7537AN).</td></tr>
<tr><td>16</td><td>DATA VOL</td><td>O</td><td>Pin for Data Output to the electronics VOL IC.</td></tr>
<tr><td>17</td><td>CE VOL</td><td>O</td><td>Pin for CE Output to the electronics VOL IC. This output is used as the latch signal to send data.</td></tr>
<tr><td>18</td><td>NOSE</td><td>I</td><td>Initialization pin which determines whether the nose is removed or not. When this input is "High", there are no nose removal failure caution alarm, no cassette EJECT and no nose open function (by means of pressing OPEN button for two sec).</td></tr>
<tr><td>19</td><td>B/C (INT)</td><td>I</td><td>Initialization pin which determines whether Dolby B NR only or Dolby B and C NR. When "Low", this input sets both B and C. When "High", it sets B only.</td></tr>
</table>

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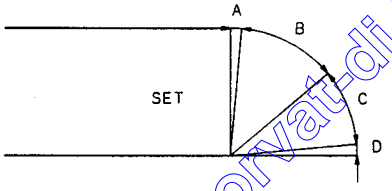
<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>20</td><td>$\overline{\text{CLOCK}}$</td><td>I</td><td>Initialization pin which determines whether the internal clock is present or not. When "Low", this input initializes the system with the clock present.</td></tr>
<tr><td>21</td><td>POWER SELECT</td><td>I</td><td>Power Select switch (initialization). Set this input "Low" to select Power select OFF setting (to cope with cars without accessary position).</td></tr>
<tr><td>22</td><td>PL</td><td>O</td><td>MD Plunger Control pin.</td></tr>
<tr><td>23</td><td>CM</td><td>O</td><td>MD Capstan Motor Control pin.</td></tr>
<tr><td>24</td><td>LM−</td><td>O</td><td rowspan="2">MD Loading Motor Control pin</td></tr>
<tr><td>25</td><td>LM+</td><td>O</td></tr>
<tr><td colspan="3"></td><td>
<table>
<tr><th>LM− / LM+</th><th>High</th><th>Low</th></tr>
<tr><td>High</td><td>Brake</td><td>Loading Direction</td></tr>
<tr><td>Low</td><td>Eject Direction</td><td>Stopped</td></tr>
</table>
</td></tr>
<tr><td>26</td><td>Vss</td><td>—</td><td>Vss pin.</td></tr>
<tr><td>27</td><td>DP 0</td><td>I</td><td rowspan="2">Door (Nose) Position Detection pin.</td></tr>
<tr><td>28</td><td>DP 1</td><td>I</td></tr>
<tr><td colspan="3"></td><td>


<table>
<tr><th>Position</th><th>A</th><th>B</th><th>C</th><th>D</th></tr>
<tr><td>DP0</td><td>H</td><td>H</td><td>L</td><td>L</td></tr>
<tr><td>DP1</td><td>H</td><td>L</td><td>L</td><td>H</td></tr>
</table>
</td></tr>
<tr><td>29</td><td>NSW</td><td>I</td><td>Nose Presence Detection pin. When "Low", this input indicates that the nose is removed.</td></tr>
<tr><td>30</td><td>CSW</td><td>I</td><td>Cassette Tape Presence Detection pin. When "High", this input indicates that cassette tape is present.</td></tr>
<tr><td>31</td><td>REEL 1</td><td>I</td><td>Cassette Tape Rotation Detection pin (this input indicates Take up side when tape is being rotated in normal direction).</td></tr>
<tr><td>32</td><td>REEL 2</td><td>I</td><td>Cassette Tape Rotation Detection pin (this input indicates Supply side when tape is being rotated in normal direction).</td></tr>
<tr><td>33</td><td>F/$\overline{\text{R}}$</td><td>I</td><td>Cassette Tape Run Direction Detection pin. When "Low", this input indicates REVERSE.</td></tr>
<tr><td>34</td><td>———</td><td>—</td><td>Not used. (Connected to GND.)</td></tr>
<tr><td>35</td><td>———</td><td>—</td><td>Not used. (Connected to GND.)</td></tr>
<tr><td>36</td><td>———</td><td>—</td><td>Not used. (Connected to GND.)</td></tr>
<tr><td>37</td><td>CLK OUT</td><td>O</td><td>Serial Communication Clock Output pin. (UNILINK BUS Interface Clock Output pin)</td></tr>
<tr><td>38</td><td>$\overline{\text{BUS ON}}$</td><td>O</td><td>UNILINK BUS Interface Bus ON Output terminal. Set this output "Low" to enable communication on the bus.</td></tr>
<tr><td>39</td><td>KEY RESET</td><td>O</td><td>Pin which resets the KEY DISPALY mircocomputer (IC 702).</td></tr>
<tr><td>40</td><td>BEEP</td><td>O</td><td>BEEP Output pin.</td></tr>
<tr><td>41</td><td>SI</td><td>I</td><td>Serves as both Serial Data Input pin and Detection pin for Communication Request from slave. (UNILINK BUS Interface Data Input pin)</td></tr>
</table>

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| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 42 | SO | O | Serial Data Output pin. (UNILINK BUS Interface Data Output pin) |
| 43 | CLK IN | I | Serial Communication Clock Input pin. |
| 44 | BU CHECK | I | Power Voltage Detection pin. |
| 45 | $\overline{\text{ACC CHECK}}$ | I | Accessory Voltage Detection pin. When "High", this input indicates ACC OFF. |
| 46 | $\overline{\text{TEL MUTE}}$ | I | Pins which detects a telephone call. This input becomes "Low" to mute −20dB audio signal. It becomes "High" to return the signal to its original VOL level. |
| 47 | ——— | — | Not used. (Connected to GND.) |
| 48 | $\overline{\text{TV}}$/TV1,2 | I | Intialization pin for the number of bands (preset count) for TV when the Hide-away TV tuner is connected. When "Low", this input sets 1 band (preset count to 10). When " High", it sets 2 bands for TV1,TV2 (preset count to 20). |
| 49 | $\overline{\text{KEY 5V}}$ | O | Power Control pin for the KEY DISPALY microcomputer. Set this output "Low" to turn the power on. |
| 50 | $\overline{\text{AUX ON}}$ | O | This output is "Low" when supplied as an external input of UNILINK IN AUDIO to CD, TV, etc. It supplies high impedance to other destinations. |
| 51 | $\overline{\text{D ON}}$ | O | This output is "Low" when sound is being produced from cassette tape. Ohterwise, it supplies high impedance. |
| 52 | ——— | — | Not used. |
| 53 | ——— | — | Not used. |
| 54 | ANT ON | O | This output supplies high impedance when the tuner or TV is on. It is "Low" when any other source is on. |
| 55 | ——— | — | Not used. |
| 56 | ——— | — | Not used. |
| 57 | NC | — | Connected to VDD. |
| 58 | $V_{DD}$ | — | $V_{DD}$ pin. |
| 59 | B/C | O | This output is "High" when Dolby B NR is on. It is "Low" output when C NR is on. |
| 60 | DNR ON | O | This output is "Low" when Dolby NR is on. It is "High" when Dolby NR is off. |
| 61 | $\overline{\text{AMS IN}}$ | I | Detection pin which determines whether tape sound is present or not. This input is "Low" when tape sound is present. |
| 62 | MTL | I | Tape NORMAL/METAL Detection pin. This input is "Low" when normal tape is used. |

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**Key Display Mircocomputer IC702 ($\mu$PD75008GB-632-3B4)**

| Pin No. | Name | I/O | Description |
|---|---|---|---|
| 44 | KI7 | I | KEY SCAN Input pin. |
| 1 | KI6 | I | |
| 2 | KI5 | I | |
| 3 | KI4 | I | |
| 4 | KI3 | I | |
| 5 | KI2 | I | |
| 6 | KI1 | I | |
| 7 | KI0 | I | |
| 8 | KO3 | O | KEY SCAN Output pin. |
| 9 | KO2 | O | |
| 10 | KO1 | O | |
| 11 | KO0 | O | |
| 12 | NC | — | (Connected to VDD.) |
| 13 | ——— | — | Not used. |
| 14 | ——— | — | |
| 15 | ——— | — | |
| 16 | ——— | — | |
| 17 | $V_{SS}$ | — | $V_{SS}$ pin. |
| 18 | XT1 | — | (Connected to GND.) |
| 19 | XT2 | — | Not used. |
| 20 | $\overline{\text{RESET}}$ | I | Reset pin. |
| 21 | X1 | I | Connection pin for System Clock oscillation. 4.19MHz connection. |
| 22 | X2 | — | |
| 23 | LCD CLK | O | Pin for Clock Output to LCD DRIVER IC (IC 703: TC9240F) |
| 24 | LCD DATA | O | Pin for Data Output to LCD DRIVER IC. |
| 25 | LCD CE | O | Pin for CE Output to LCD DRIVER IC. This output is used as the latch signal to send data. |
| 26 | LCD INH | O | Pin for INH Output to LCD DRIVER IC. |
| 27 | LINK OFF | O | Not used. |
| 28 | REQ | O | UNILINK BUS Interface Request pin.<br>This pin is "High" to request communication from the master microcomputer (IC 501). |
| 29 | DATA IN | I | Serves as both Serial Data Input pin and Detection pin for Communication Request from slave. (UNILINK BUS Interface Data Input pin) |
| 30 | DATA OUT | O | Serial Data Output pin. (UNILINK BUS Interface Data Output pin) |
| 31 | CLK IN | I | Serial Communication Clock Input pin. (UNILINK BUS Interface Clock Input pin) |
| 32 | BU CHECK | I | Power Voltage Detection pin. |
| 33 | ——— | — | (Connected to GND.) |
| 34 | NC | — | (Connected to VDD.) |
| 35 | $\overline{\text{TV CONT}}$ | I | Not used. |
| 36 | $\overline{\text{BUS ON}}$ | I | UNILINK BUS Interface Bus ON Terminal. When this output is "Low", communication on the bus is enabled. |

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| Description |
|---|
| |
| |
| |
| |
| |
| |
| |
| |
| illation. 4.19MHz connection. |
| R IC (IC 703: TC9240F) |
| IC. |
| C. This output is used as the latch signal to send |
| IC. |
| |
| ication from the master microcomputer (IC 501). |
| d Detection pin for Communication Request from Input pin) |
| US Interface Data Output pin) |
| n. (UNILINK BUS Interface Clock Input pin) |
| |
| |
| |
| |
| minal. When this output is "Low", communication |

| Pin No. | Name | I/O | |
|---|---|---|---|
| 37 | SIRCS | I | Infrared Remote Control Input pin. |
| 38 | NC | — | (Connected to $V_{DD}$.) |
| 39 | $V_{DD}$ | — | $V_{DD}$ pin. |
| 40 | LCD ON | O | LCD Back Illumination and LCD DRI |
| 41 | ACC-ON ILL | O | Button Illumination Output for functi and it is "Low" when ACC is OFF (w |
| 42 | P-ON ILL | O | Button Illumination Output pin for bu "High" when power is turned on and |
| 43 | COLOR | O | Illunimation Color Select Output pin. "Low" to select Amber. |

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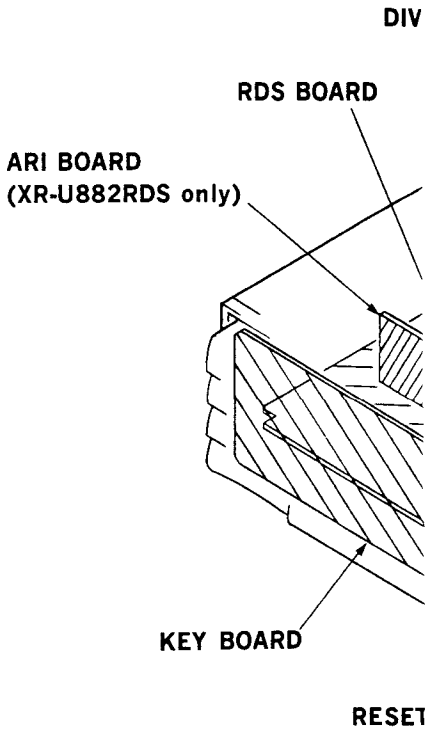
| I/O | Description |
|---|---|
| I | Infrared Remote Control Input pin. |
| — | (Connected to $V_{DD}$.) |
| — | $V_{DD}$ pin. |
| O | LCD Back Illumination and LCD DRIVER IC Power Control pin. |
| O | Button Illumination Output for function keys. This output is "High" when ACC is ON and it is "Low" when ACC is OFF (with Power Select switch selected ON). |
| O | Button Illumination Output pin for buttons other than function keys. This output is "High" when power is turned on and it is "Low" when power is turned off. |
| O | Illunimation Color Select Output pin. Set this output "High" to select Green. Set it "Low" to select Amber. |

## 3-2. CIRCUIT BOARDS LOCATION

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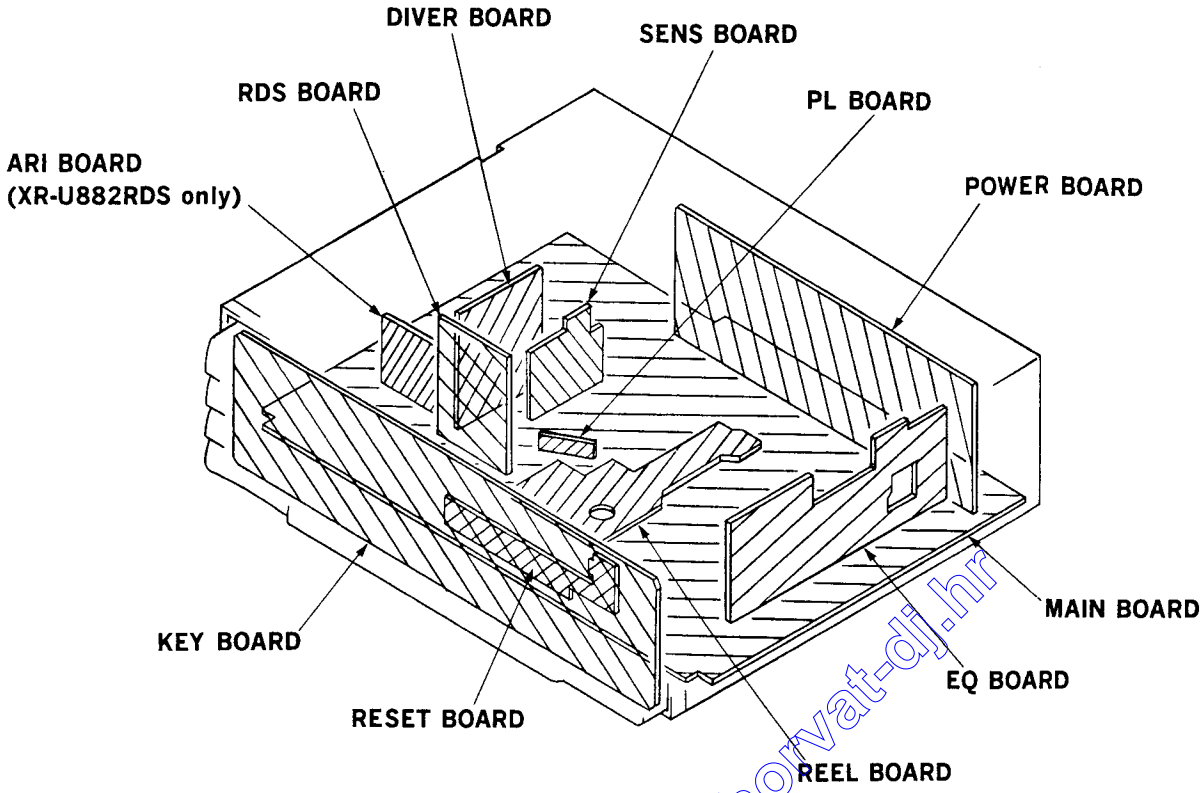
## 3-2. CIRCUIT BOARDS LOCATION

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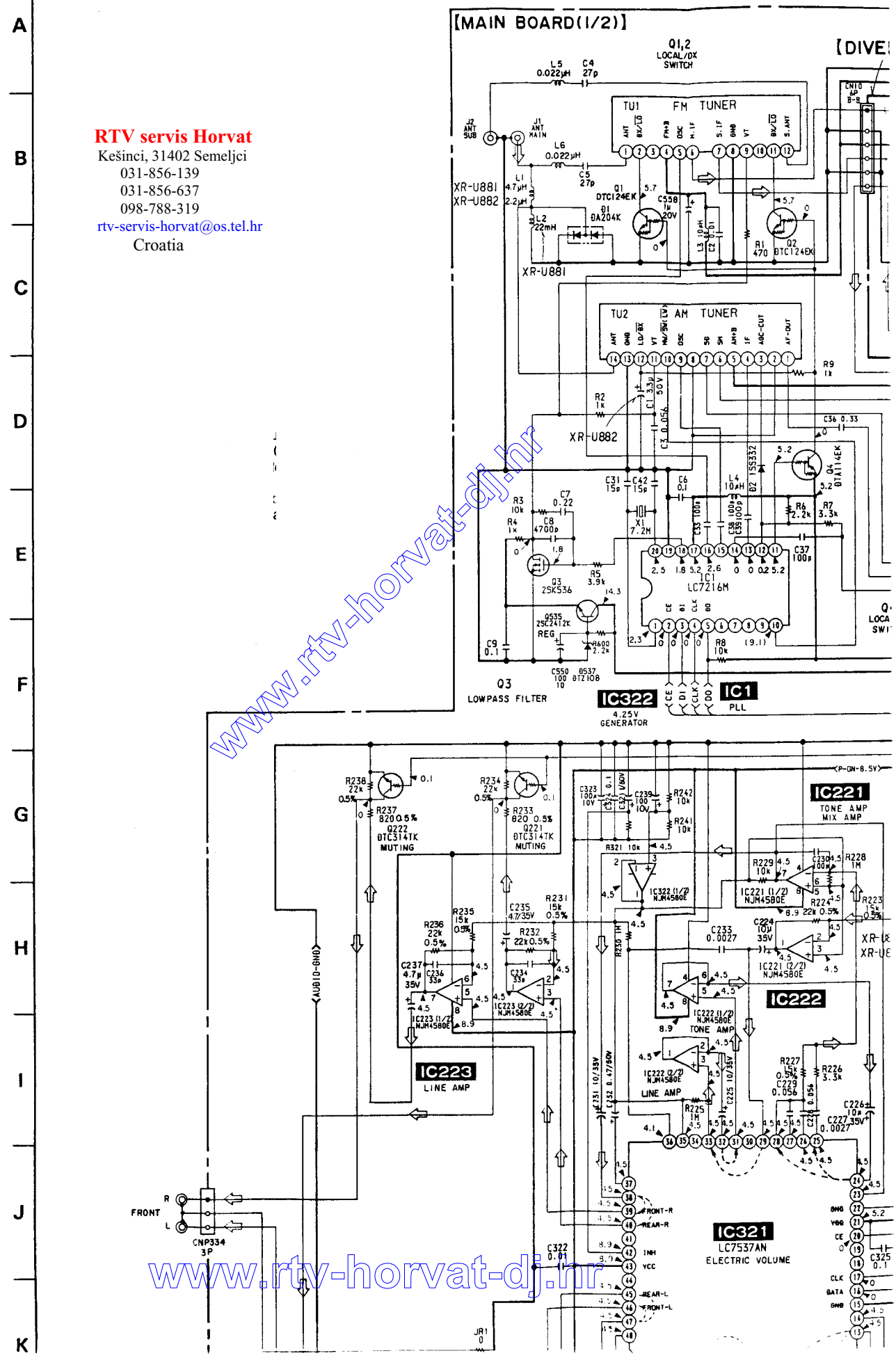


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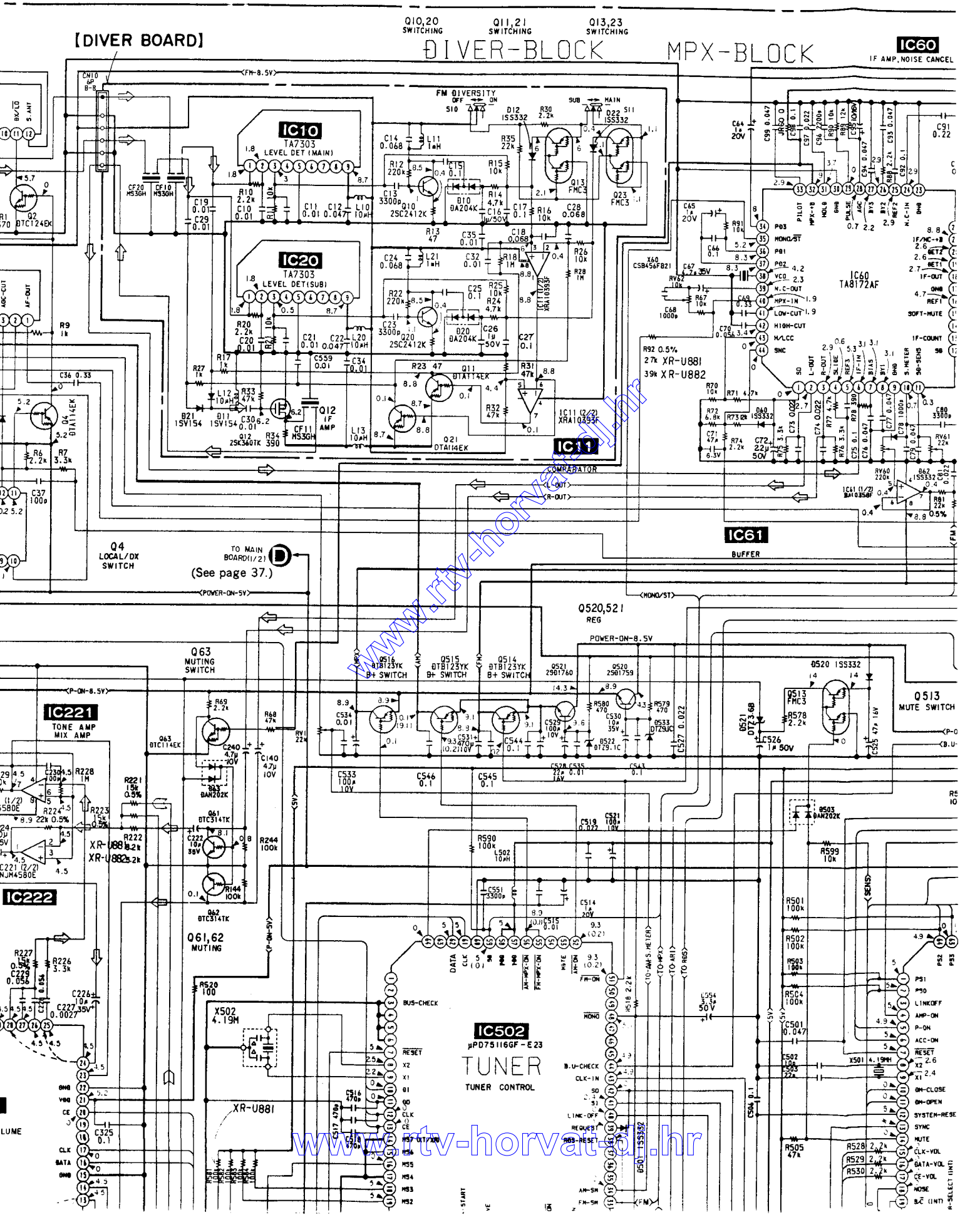
efer to page50 for IC Block Diagrams.



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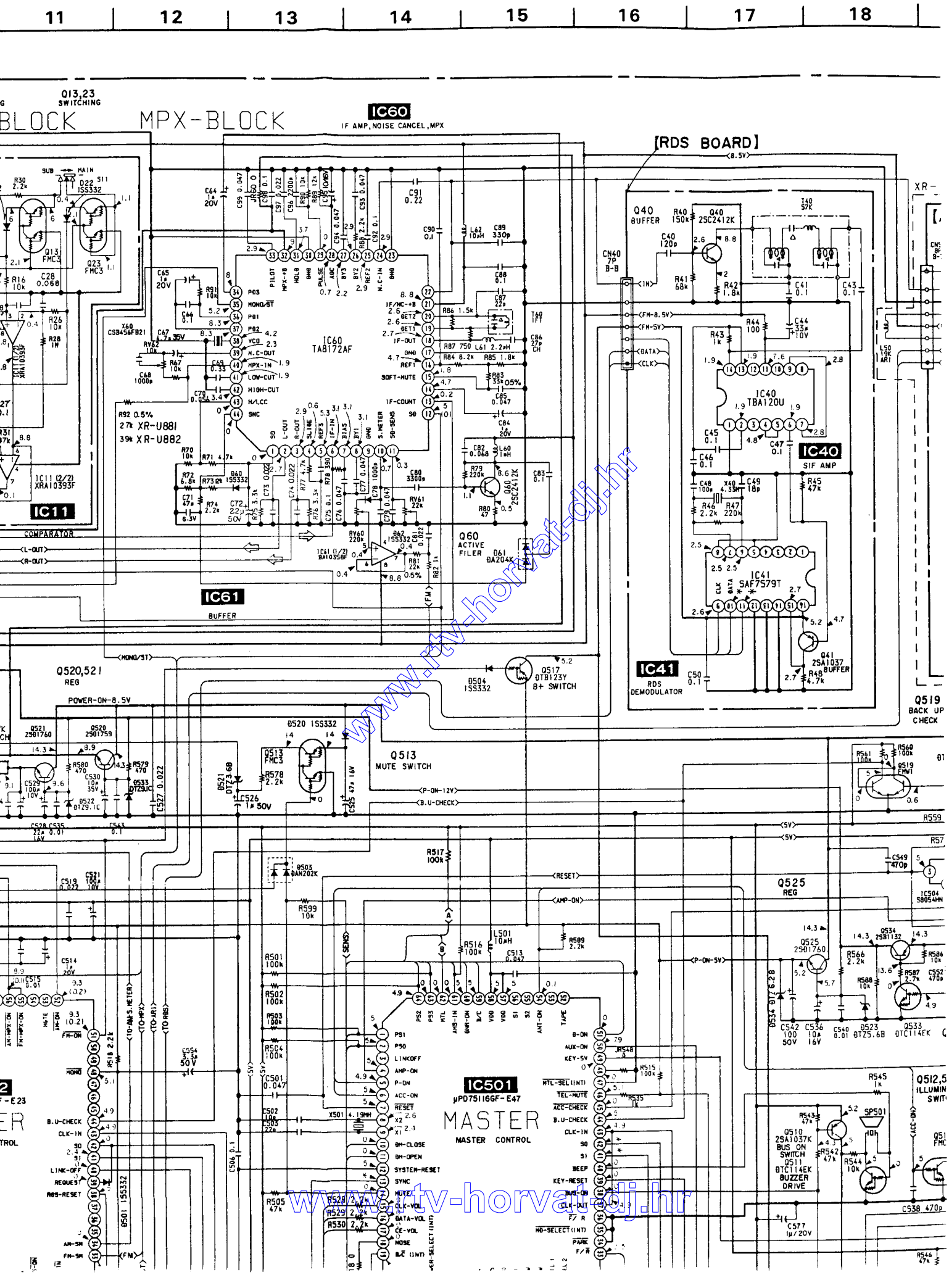


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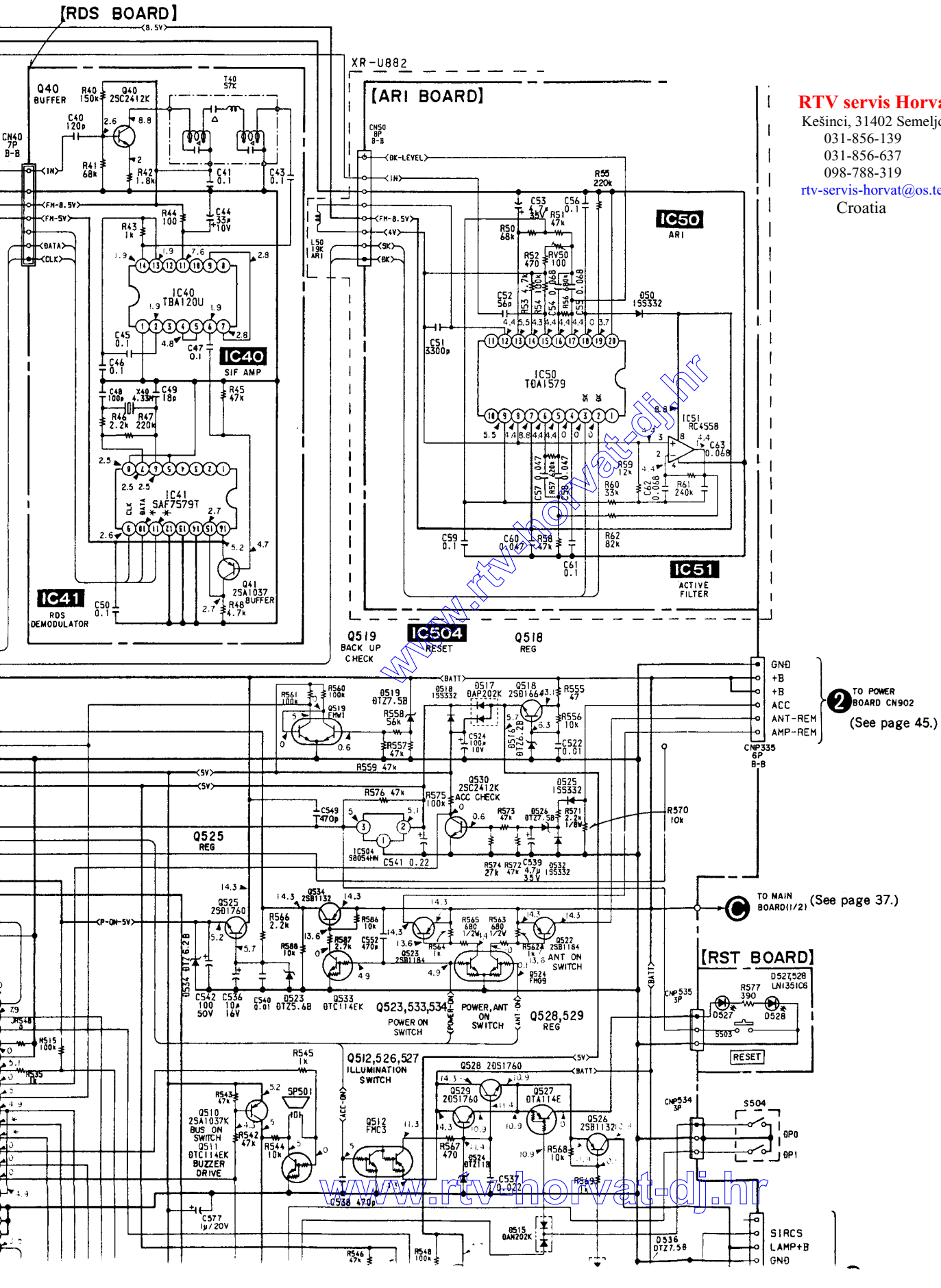


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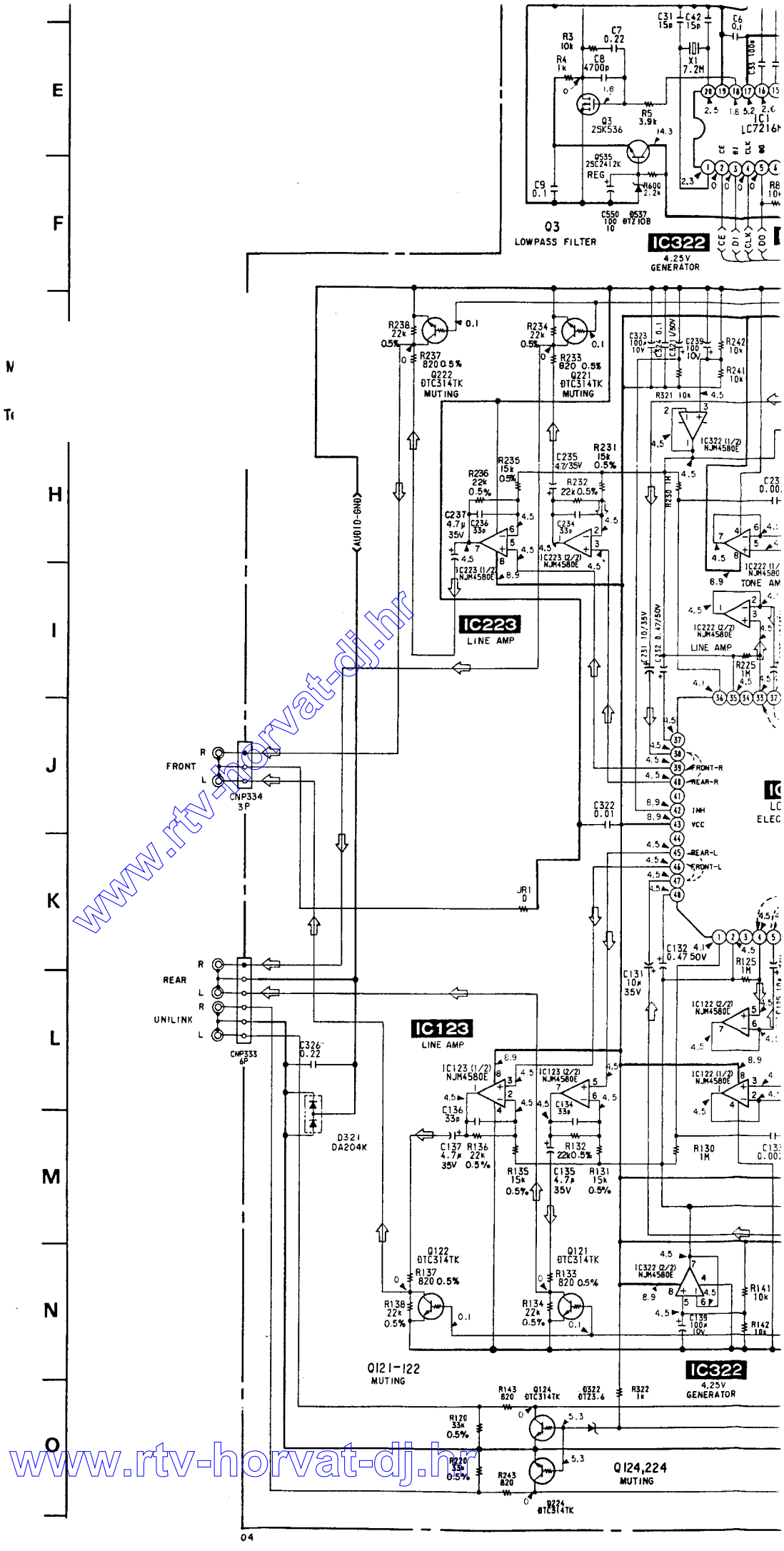


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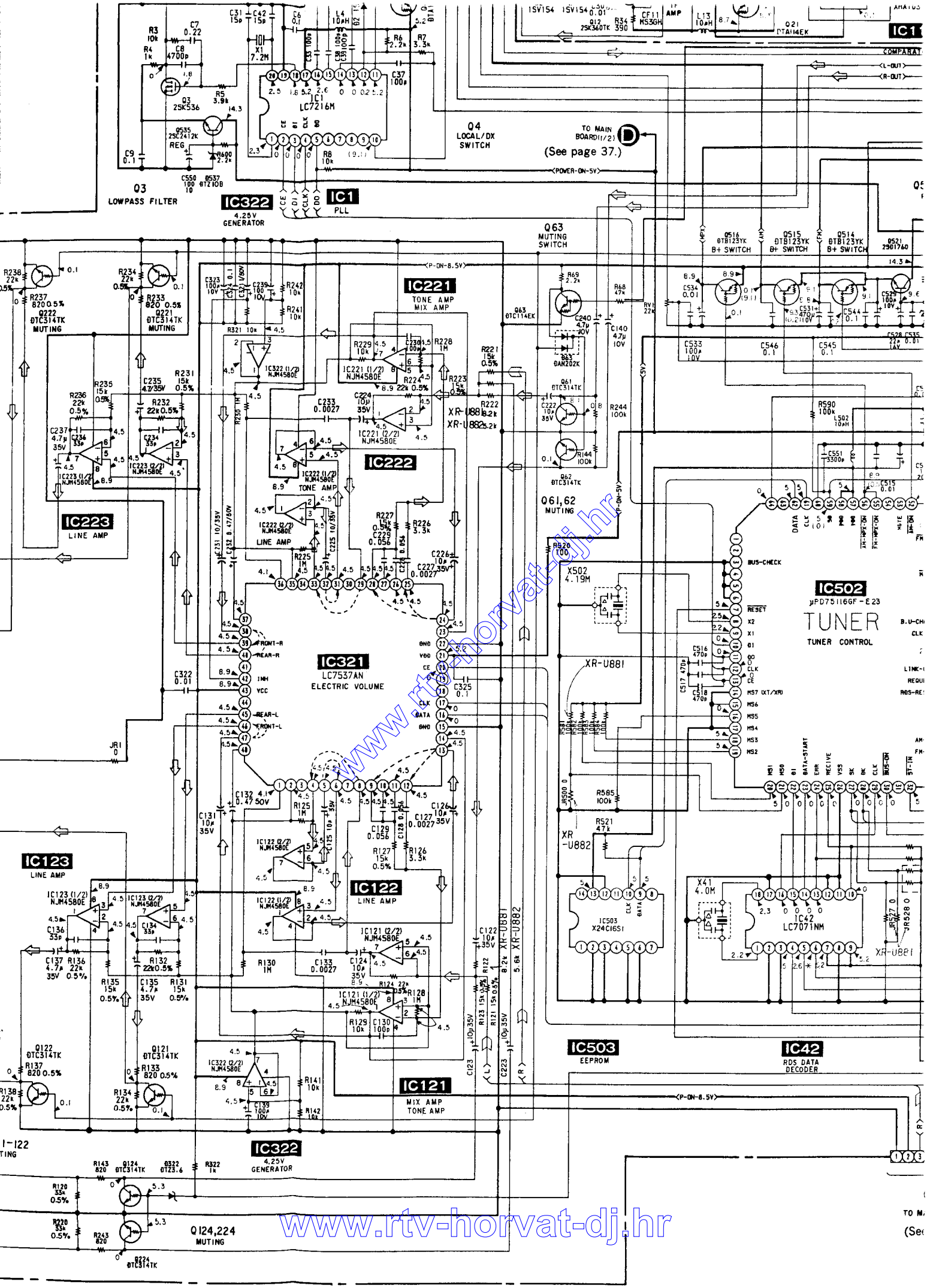


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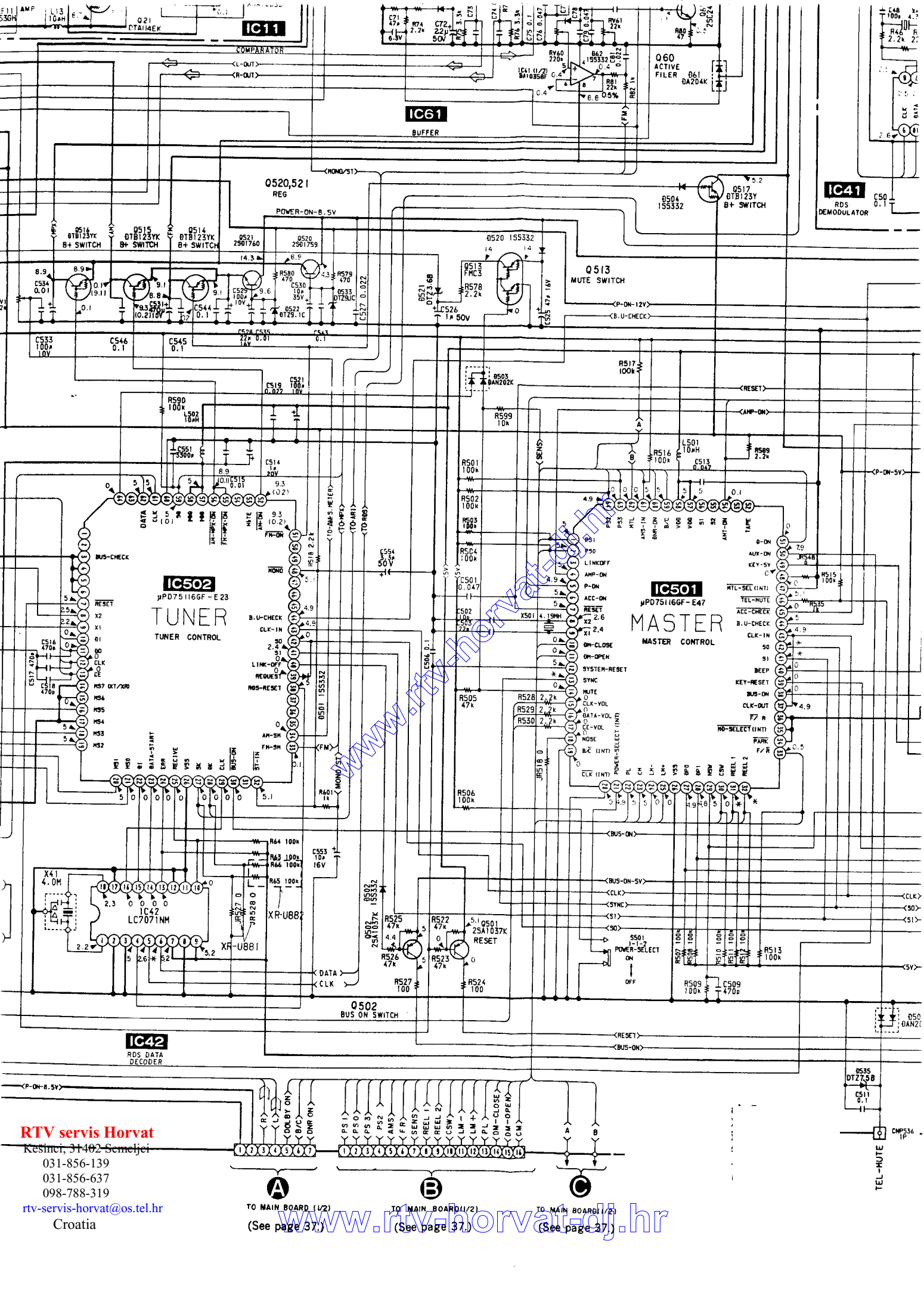


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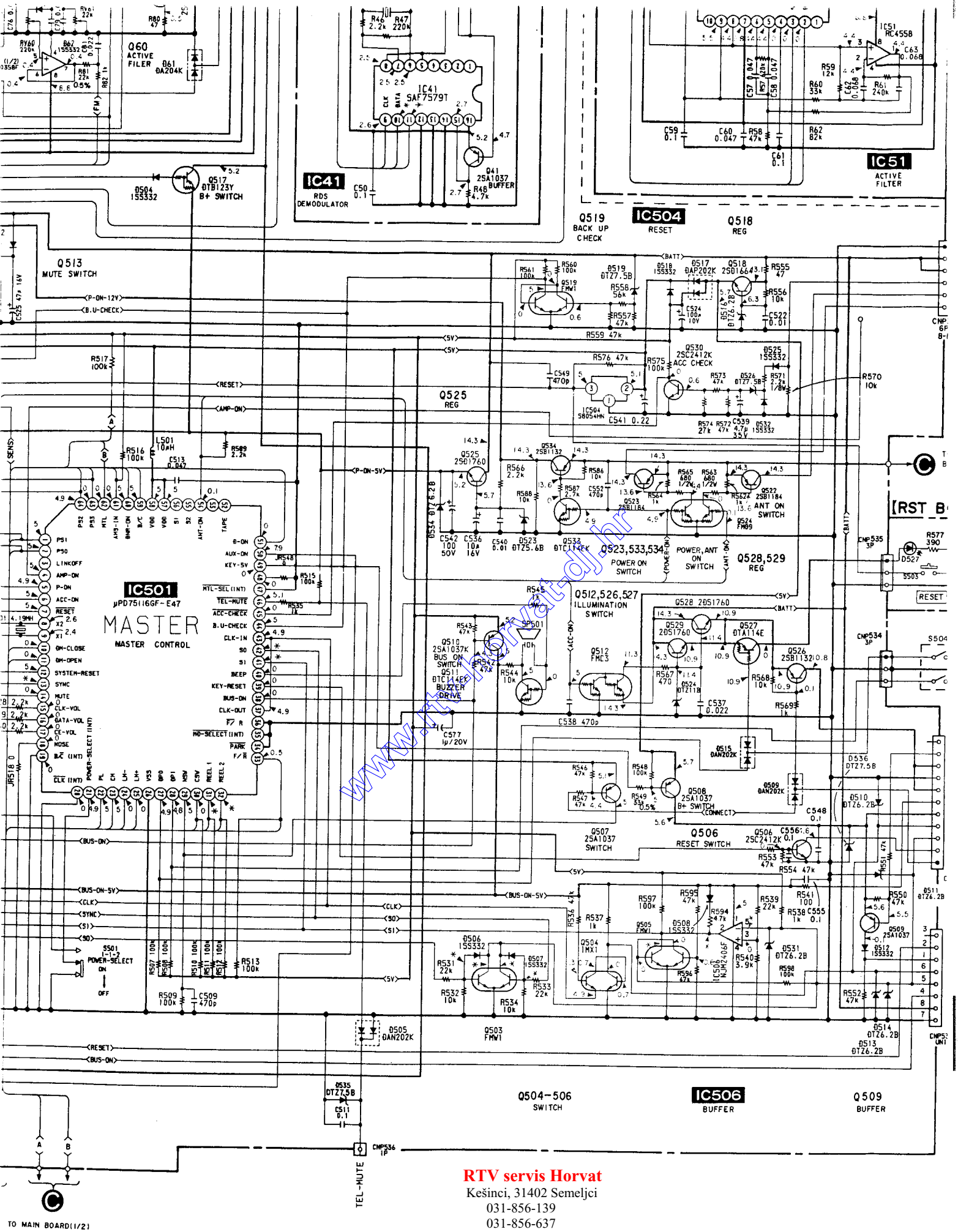
www.rtv-horvat-dj.hr

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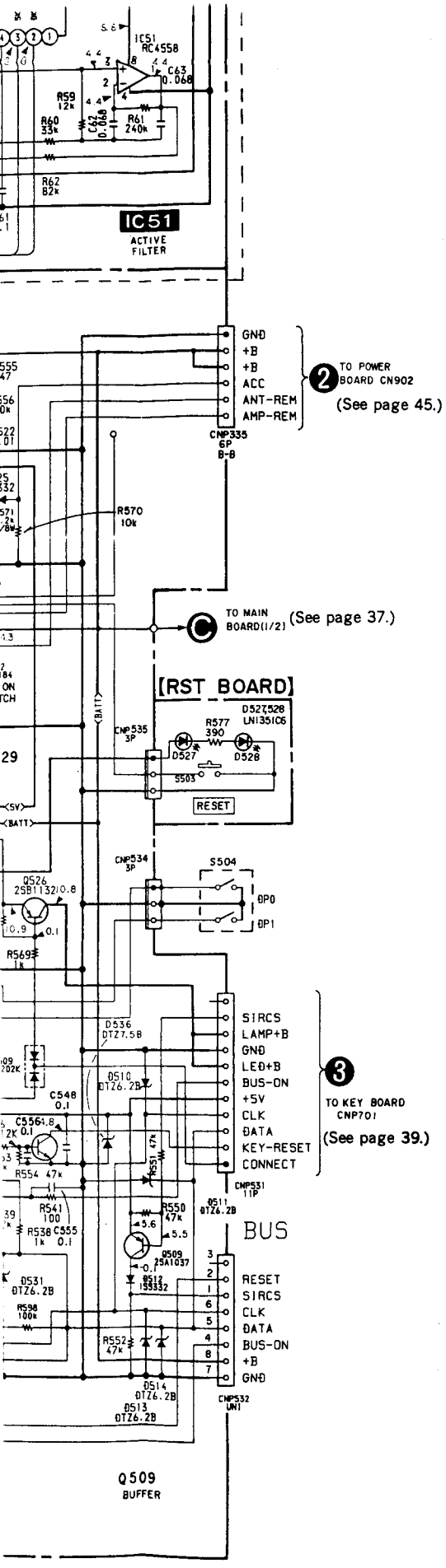
Kešinci, 31402 Semeljci
031-856-139
031-856-637
098-788-319
rtv-servis-horvat@os.tel.hr
Croatia

www.rtv-horvat-dj.hr




**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▬▬ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ( ) : MW
  ✳ : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⇨ : PB

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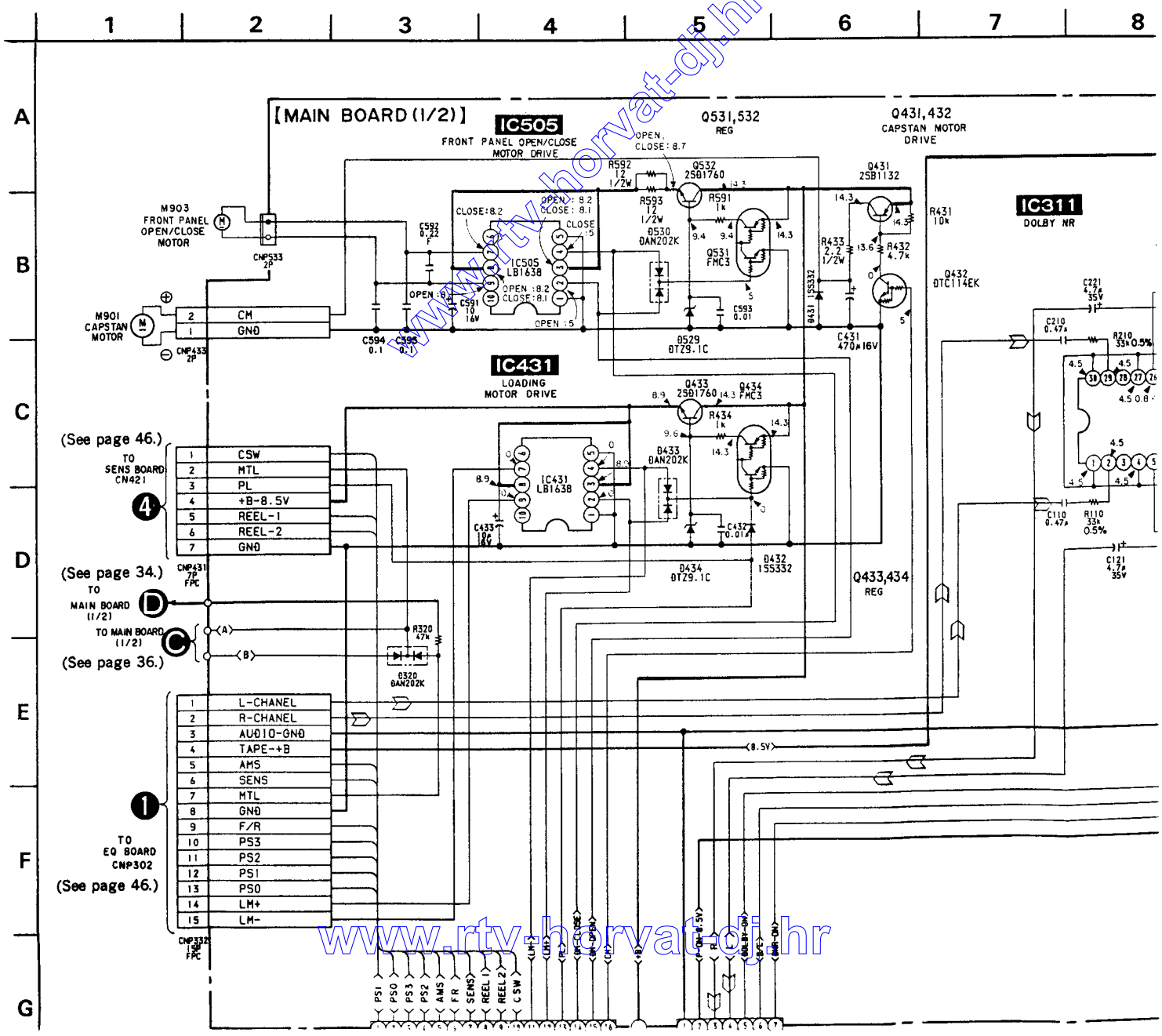
## 3-6. SCHEMATIC DIAGRAM —MAIN (1/2) SECTION—

• Refer to page50 for IC Block Diagrams.

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• Refer to page50 for IC Block Diagrams.

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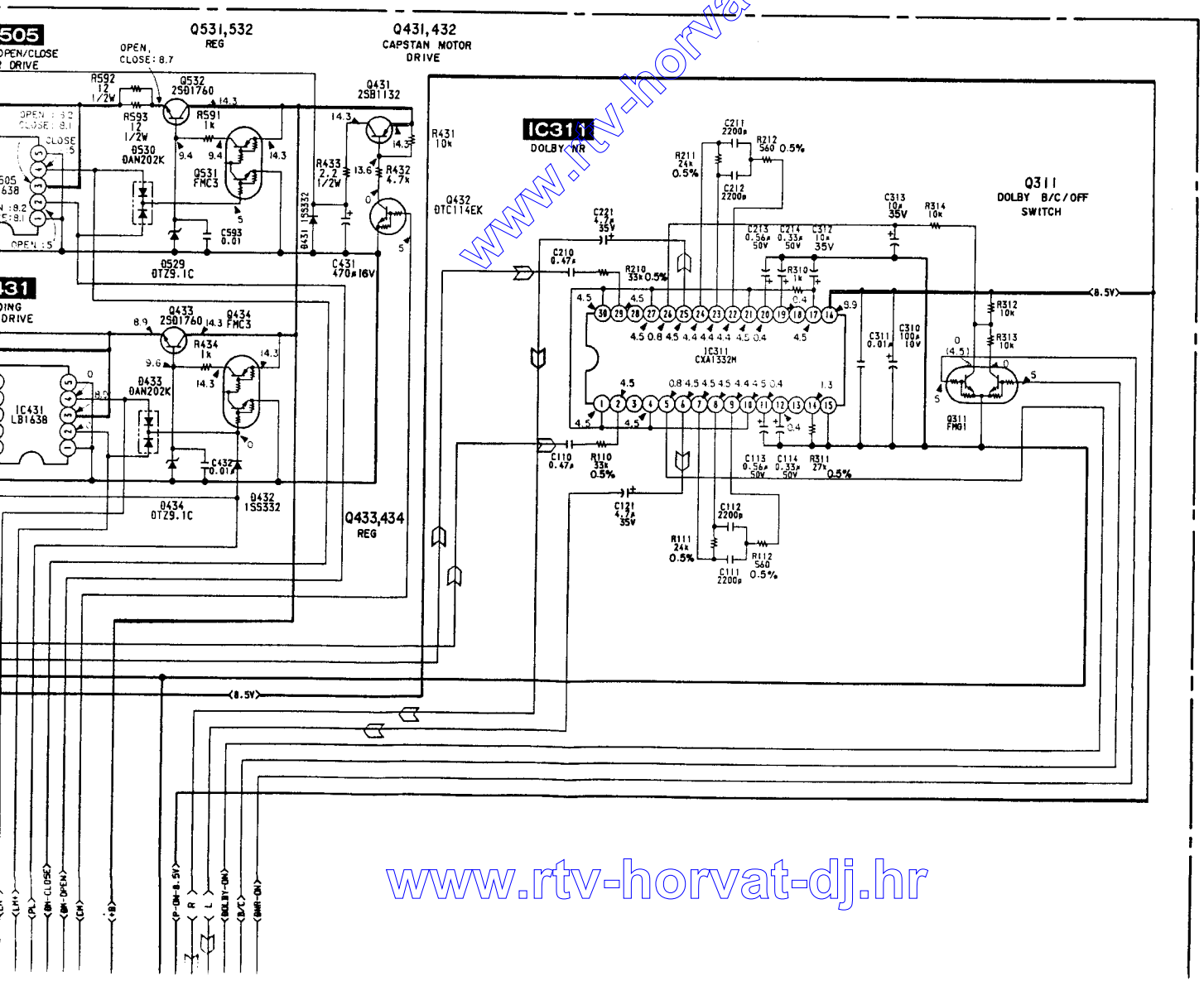


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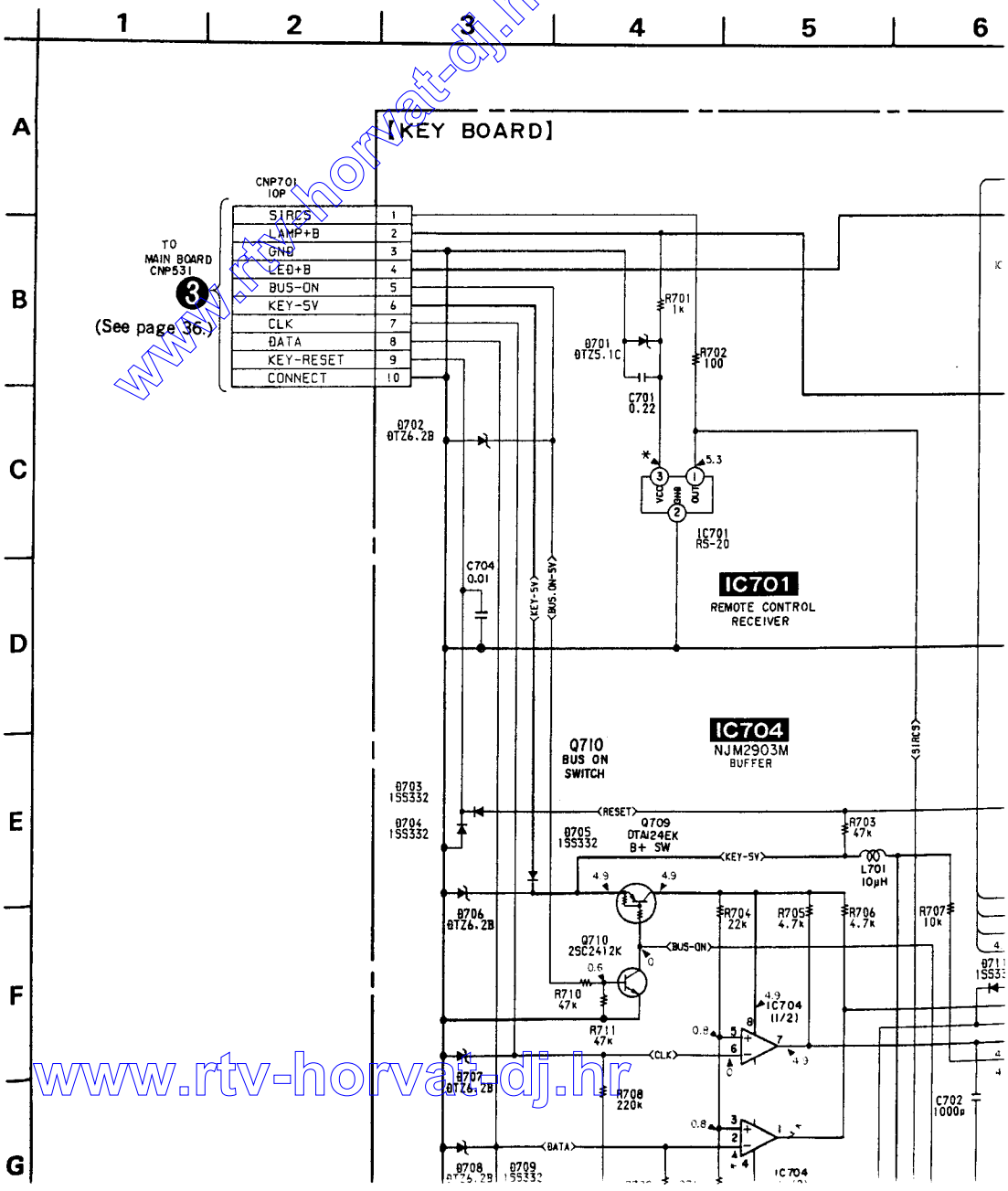
## 3-7. SCHEMATIC DIAGRAM —KEY SECTION—

• Refer to page50 for IC Block D

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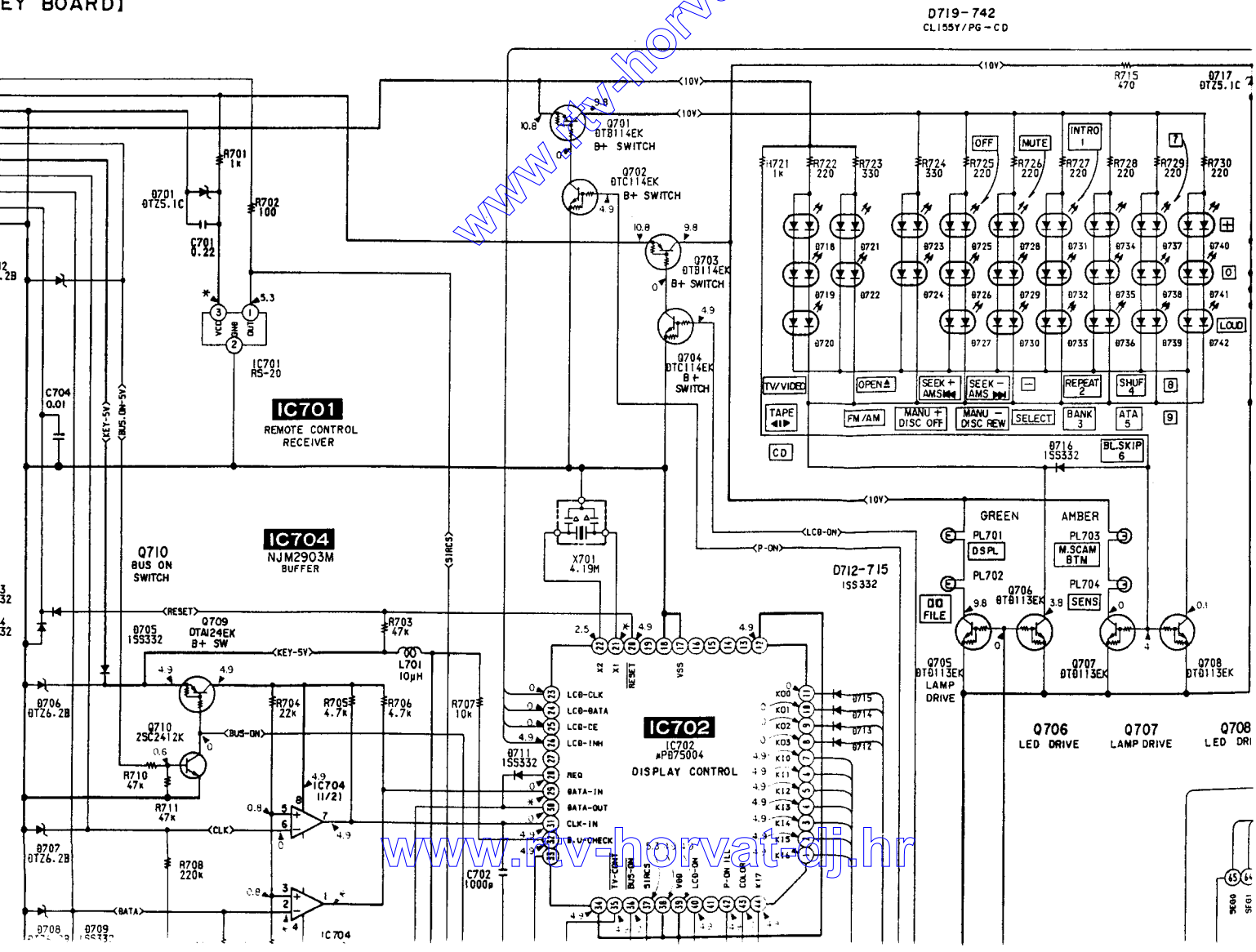
SECTION— • Refer to page50 for IC Block Diagrams.

3 4 5 6 7 8 9 10

EY BOARD]

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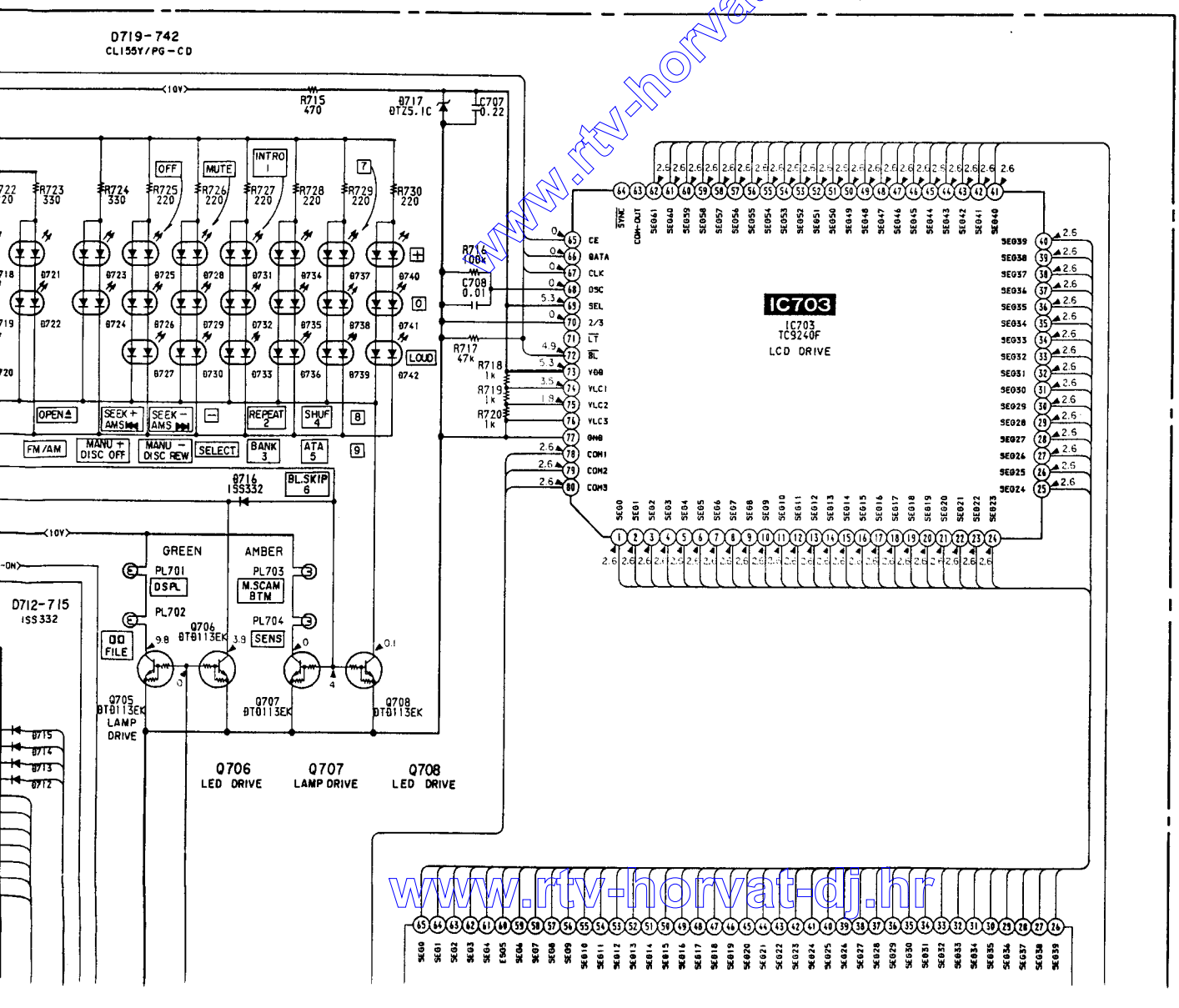
9 10 11 12 13 14 15

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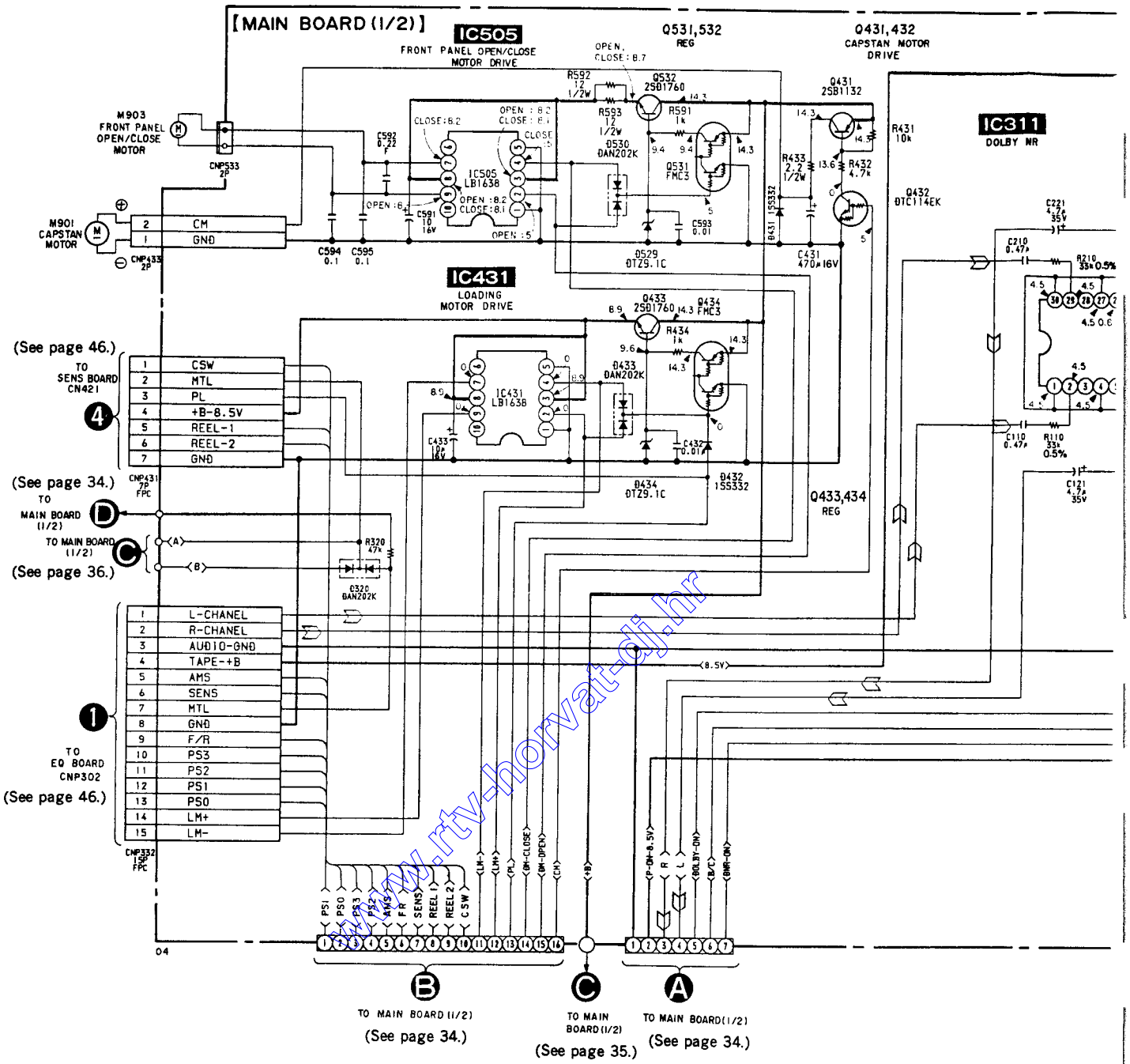


**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▬▬ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ✳ : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⊃ : PB

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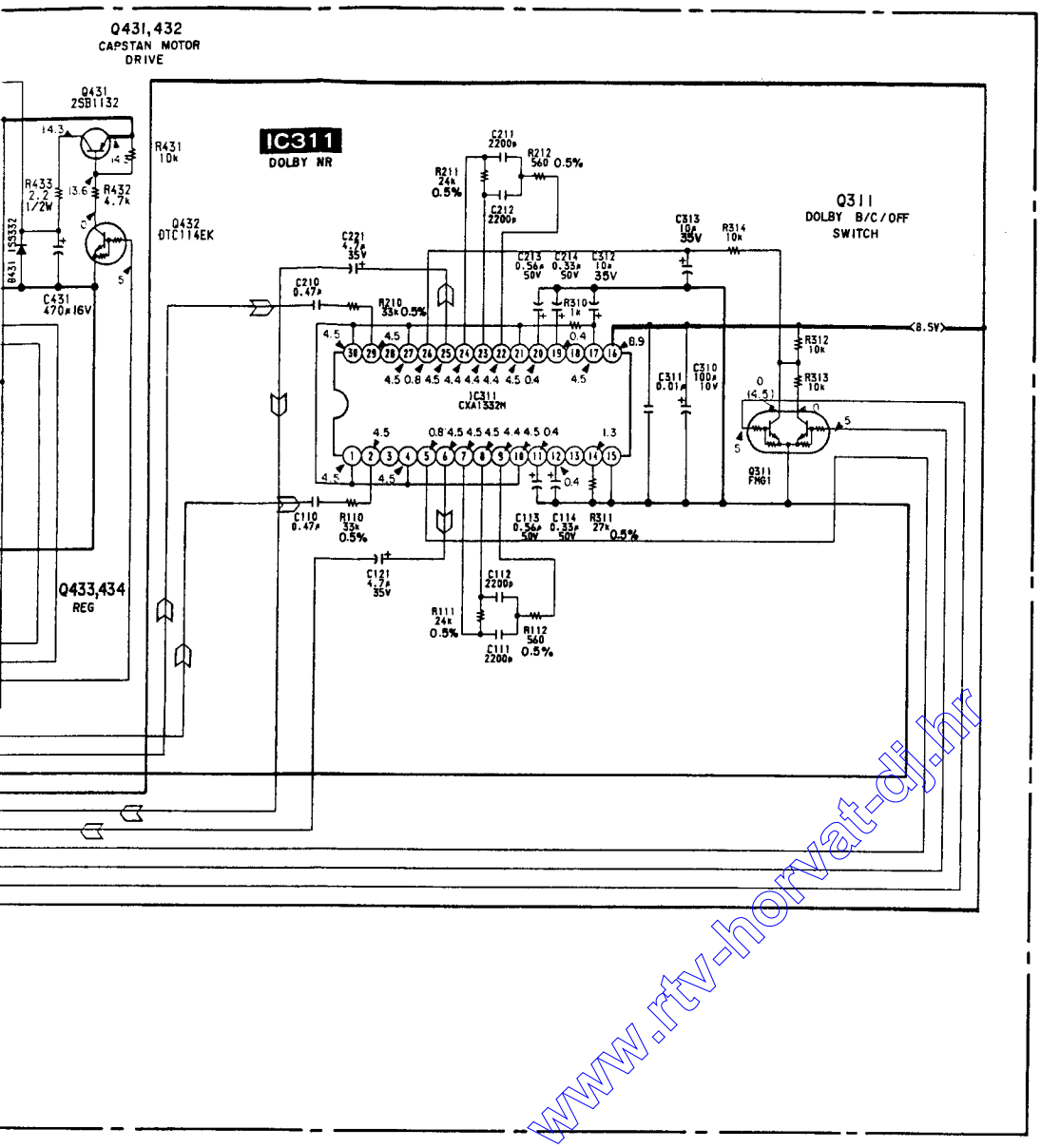


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**Note:**

- All capacitors are in μF unless otherwise n
  50WV or less are not indicated except fc
  and tantalums.
- All resistors are in Ω and 1/4 W or less ur
  specified.
- % : indicates tolerance.
- △ : internal component.
- ▬▬ : B+ Line
- Power voltage is dc 14.4V and fed with re
  supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect
  no-signal (detuned) conditions.
  no mark : FM or PB
  ✳ : Impossible to measure the voltag
  points.
- Voltages are taken with a VOM (Input Imp
  Voltage variations may be noted due to
  tion tolerances.

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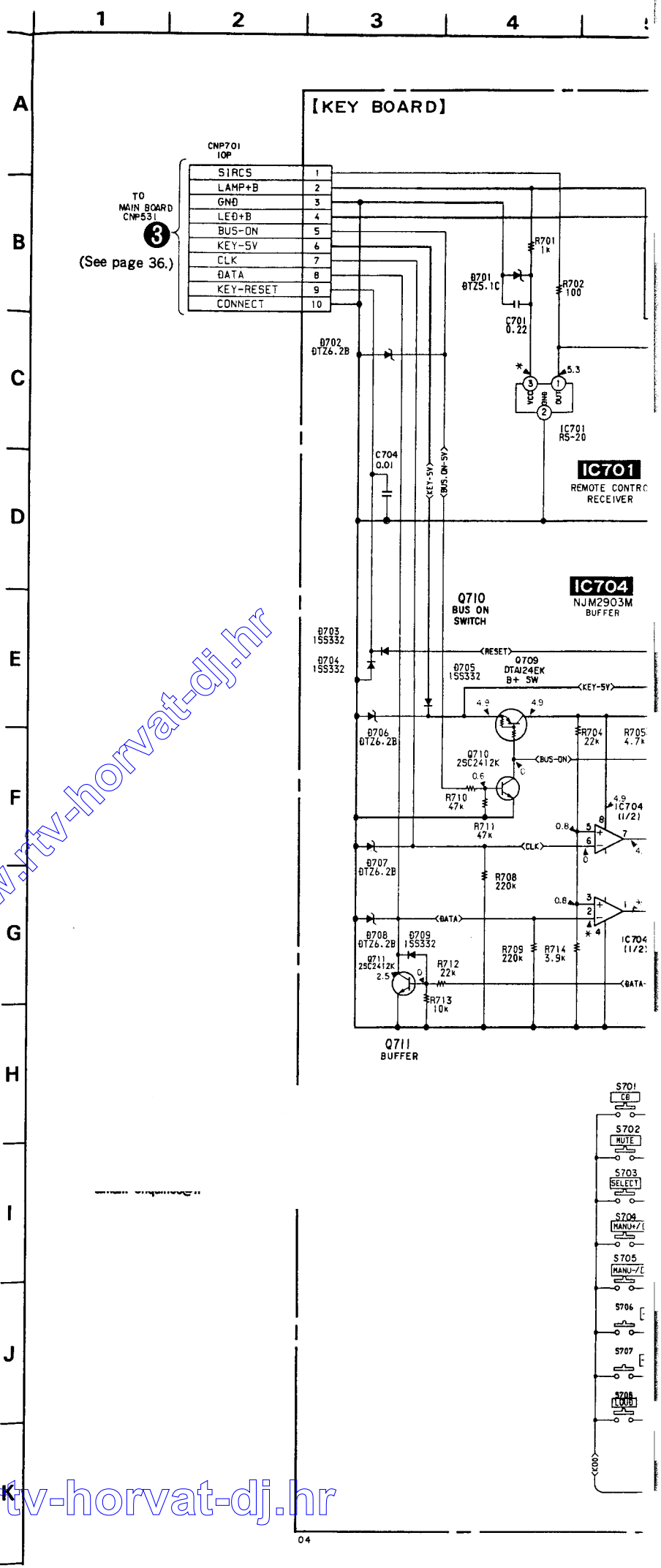


**Note:**

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▬▬ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  * : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

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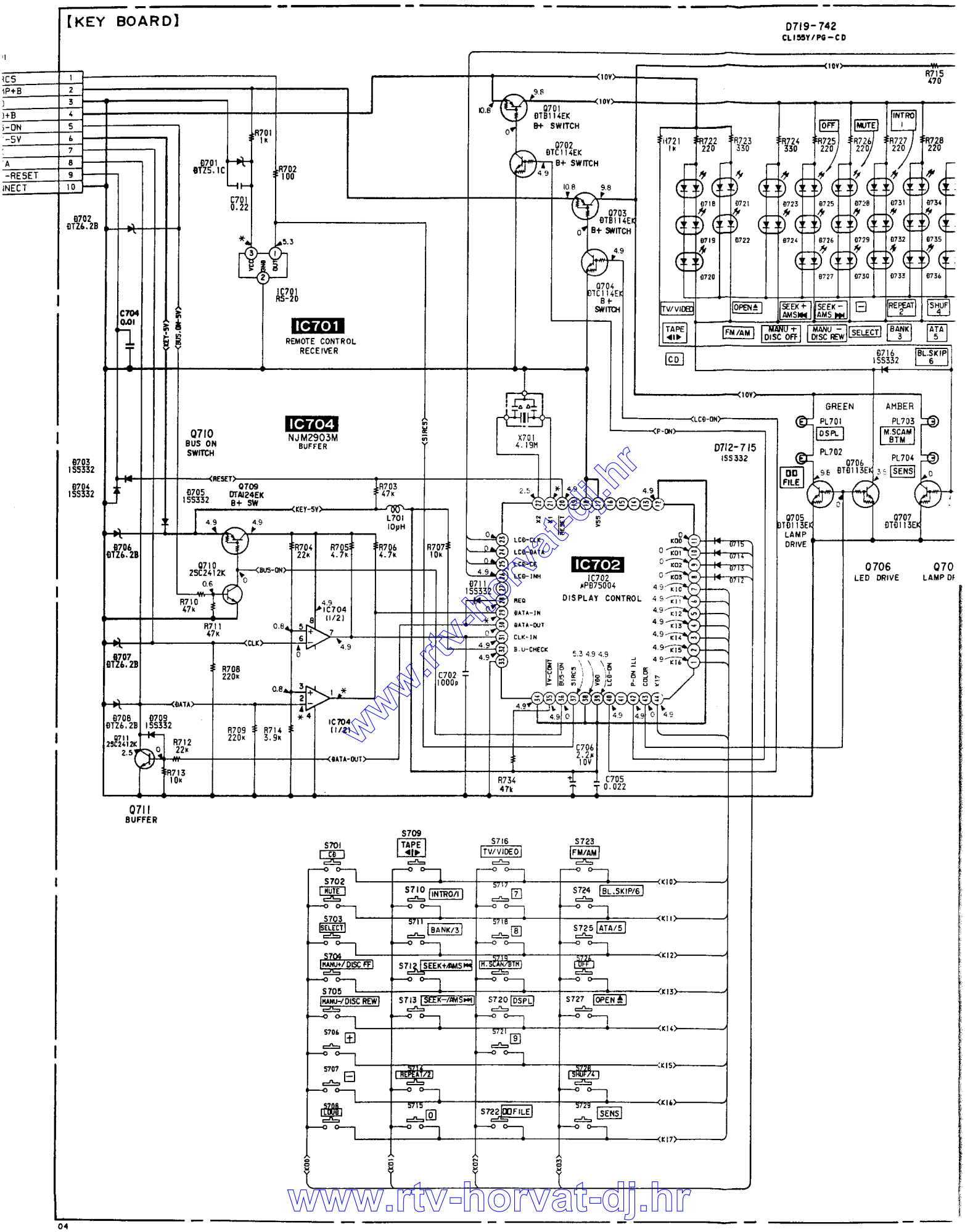
【KEY BOARD】

D719-742
CL155Y/PG-CD

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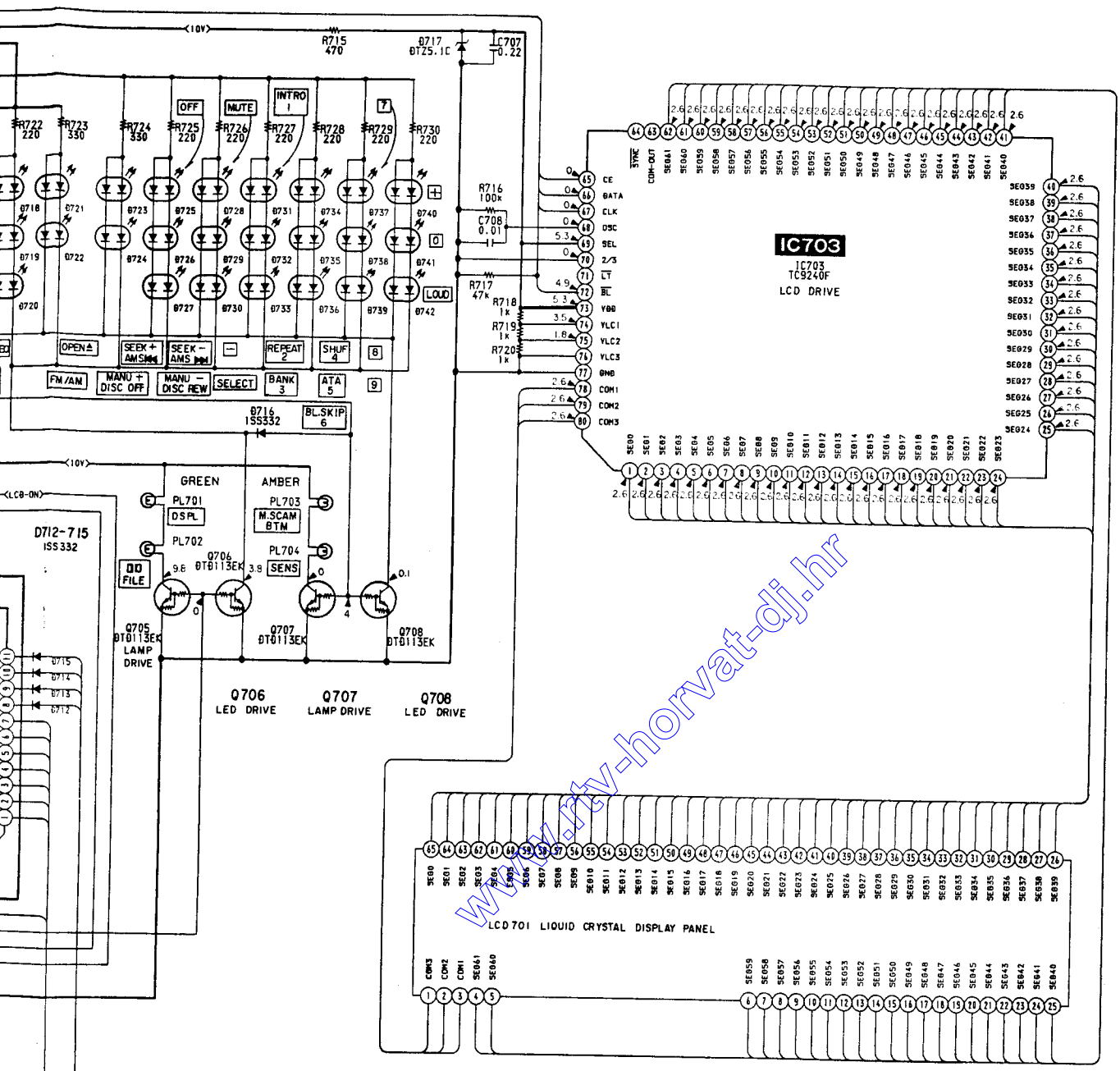
D719-742
CL155Y/PG-CD

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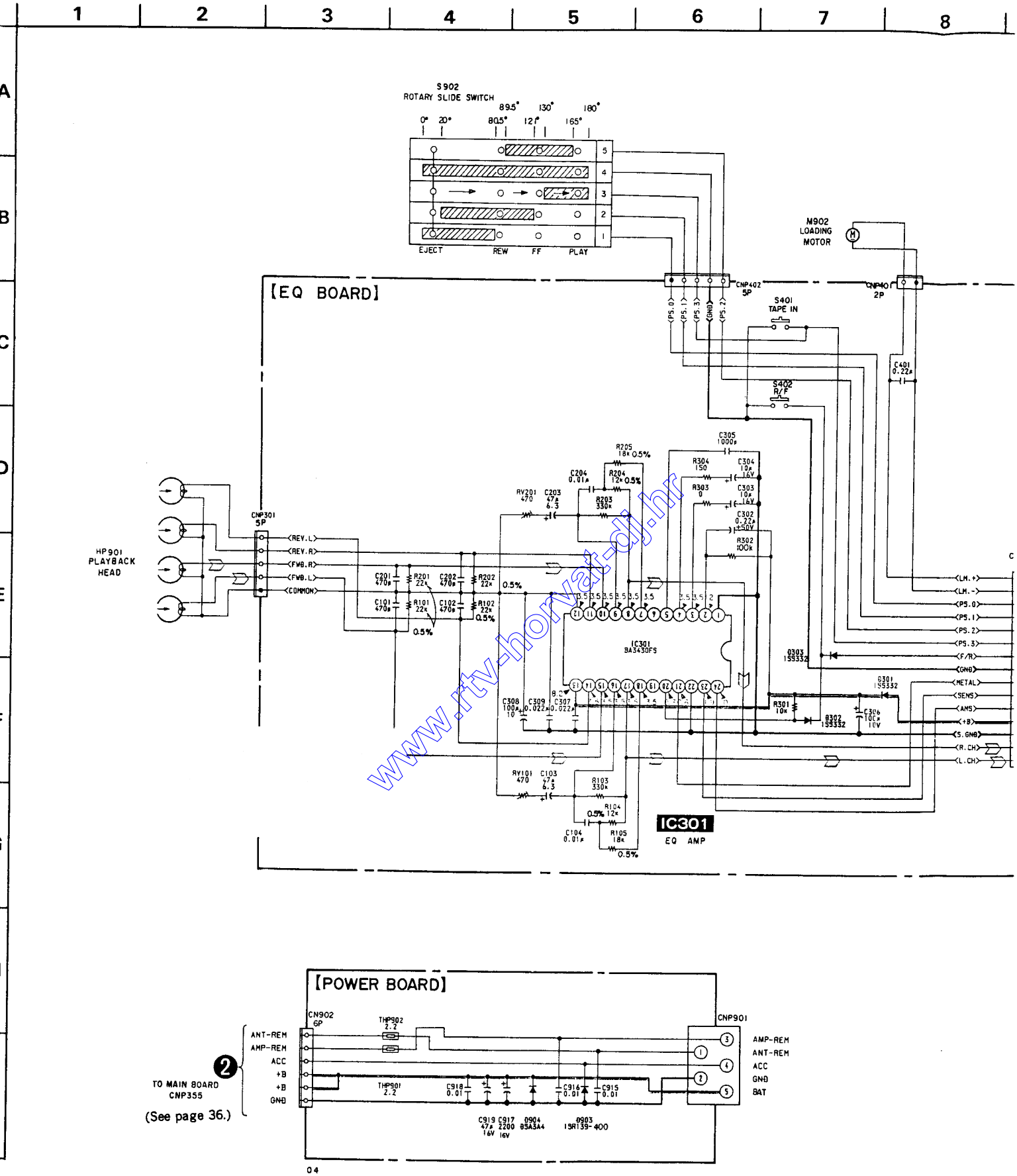




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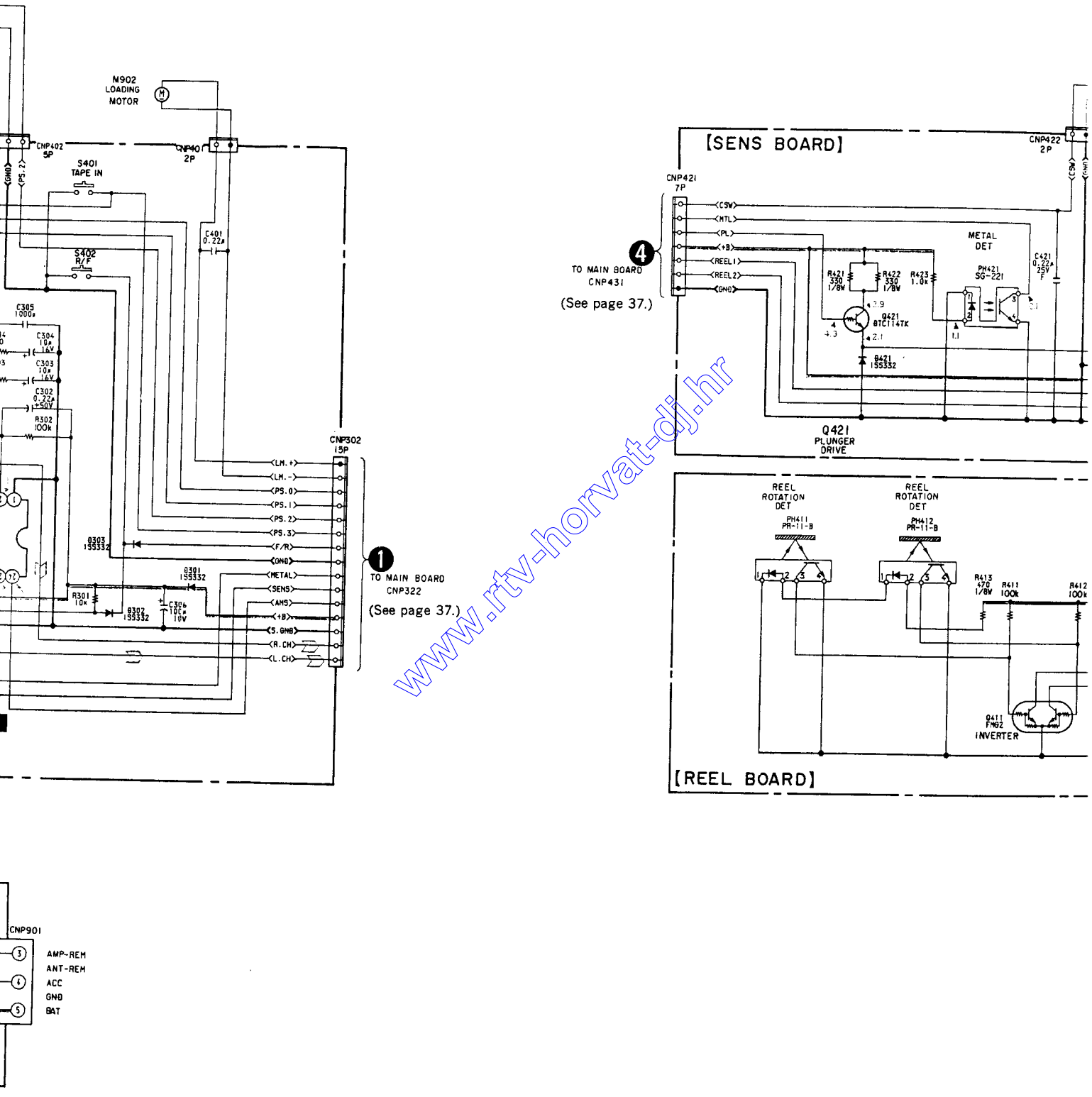
6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14

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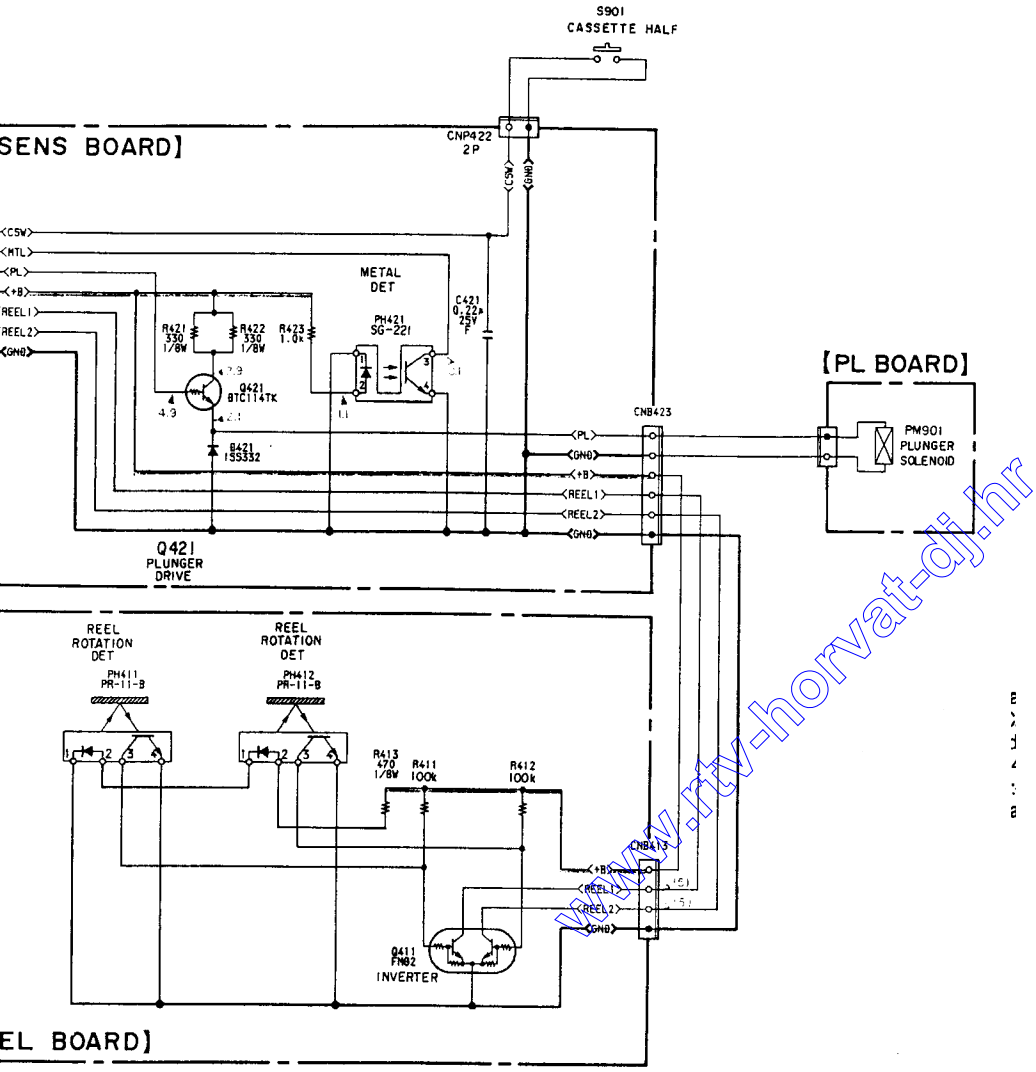


**Note:**

- All capacitors are in μF unless othe 50WV or less are not indicated e and tantalums.
- All resistors are in Ω and ¼W or specified.
- % : indicates tolerance.
- ▬▬ : B+ Line
- Power voltage is dc 14.4V and fed supply from BAT and ACC terminals.
- Voltage and waveforms are dc with no-signal (detuned) conditions.
  no mark : PB
  ( ) : STOP
- Signal path.
  ▷ PB





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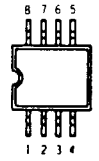
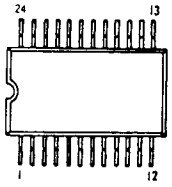
## 3-11. SEMICONDUCTOR LEAD LAYOUTS

**BA10358F**
**LM2903M**
**NJM4580E-D**
**RC4558M**
**XRA10393F**



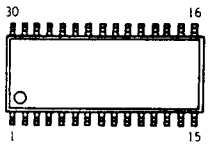

(TOP VIEW)

**BA3430FS**



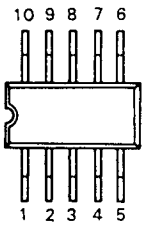

(TOP VIEW)

**CXA1332M**

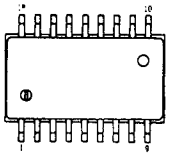



(Top view)

**LB1638M**

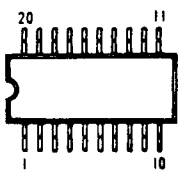



**LC7071NM**



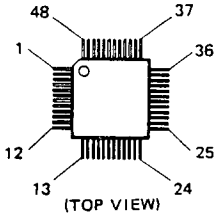
MARKING SIDE VIEW

**LC7216M**
**TDA1579T**



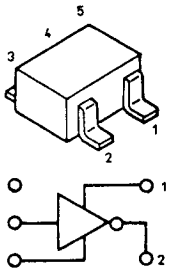

(TOP VIEW)

**LC7537AN**

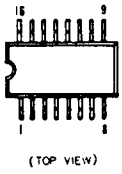



(TOP VIEW)

**NJM2406F**

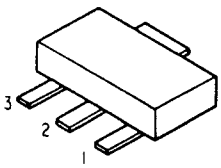



**SAF7579T**

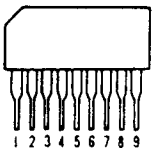



(TOP VIEW)

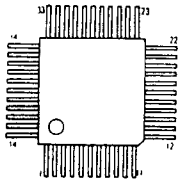
**S-8054HN-CB**



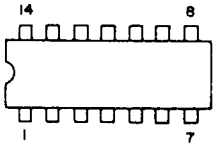

**TA7303P**




**TA8172AF**
**μPD75008GB-632-3B4**

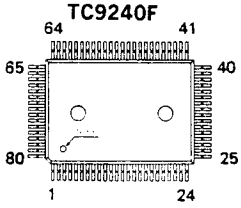


**TBA120U**



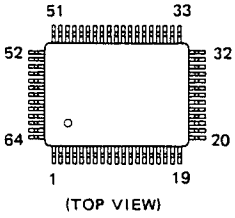

(TOP VIEW)

**TC9240F**



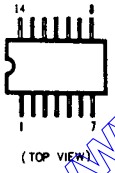

MARKING SIDE VIEW

**μPD75116GF-E47-3BE**
**μPD75116GF-E23-3BE**



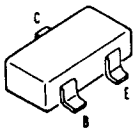

(TOP VIEW)

**X24C16SI**

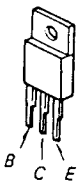



(TOP VIEW)

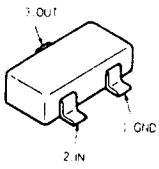
**DTA114EK**
**DTA124EK**
**DTC114EK**
**DTC114TK**
**DTC124EK**
**DTC314TKH04**
**2SA1162-G**
**2SC1623-L5L6**
**2SD1759F5**



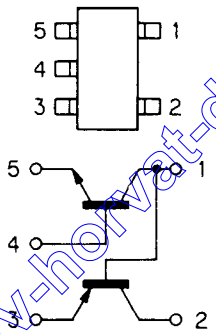

**DTB114EK**



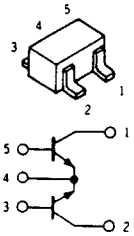

**DTB123YK**
**DTD113EK**



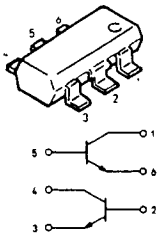

**FMC3**




**FMG1**
**FMG2**
**FMG9**
**FMW1**

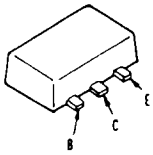



**IMX1**

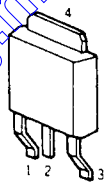



**2SA1385**

**2SB1115A**
**2SD1615A-GB**

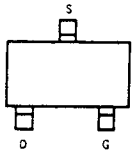



**2SD1760F5-Q**

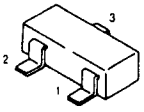



1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

**2SK360E**

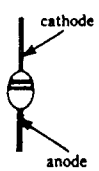



**2SK536**

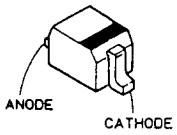



1. Drain
2. Gate
3. Source

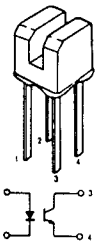
**DSA3A4**



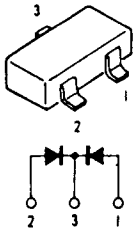

**DTZ10B**
**DTZ11B**
**DTZ3.6**
**DTZ5.1C**
**DTZ5.6B**
**DTZ6.2B**
**DTZ7.5B**
**DTZ9.1C**
**1SS332**



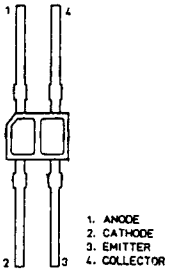

**GP1S37**




**MA152WK**

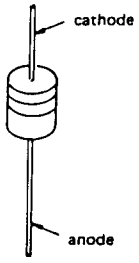



**PR-11-B-T**




1. ANODE
2. CATHODE
3. EMITTER
4. COLLECTOR

**1SR139-400**

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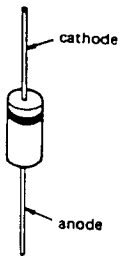


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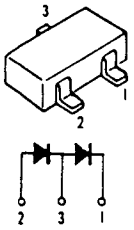


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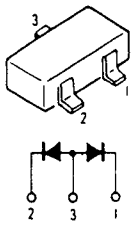
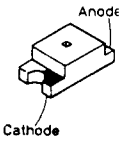



**CL-150Y-CI**

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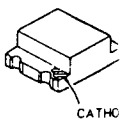




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85

15A
15A-GB

60F5-Q

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DE

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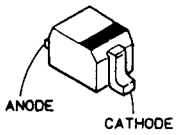
DTZ10B
DTZ11B
DTZ3.6
DTZ5.1C
DTZ5.6B
DTZ6.2B
DTZ7.5B
DTZ9.1C
1SS332

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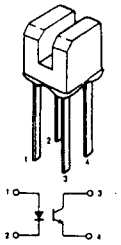

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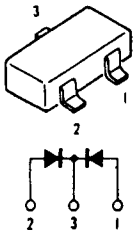
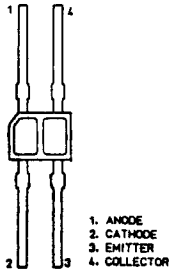
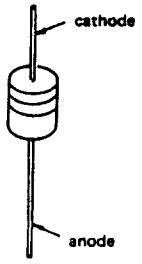


PR-11-B-T




1SR139-400

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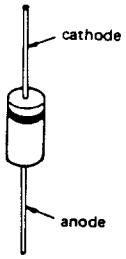


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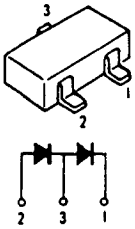

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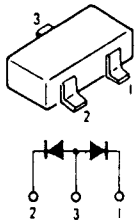

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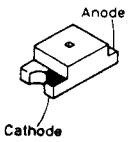
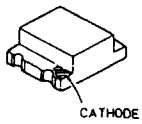
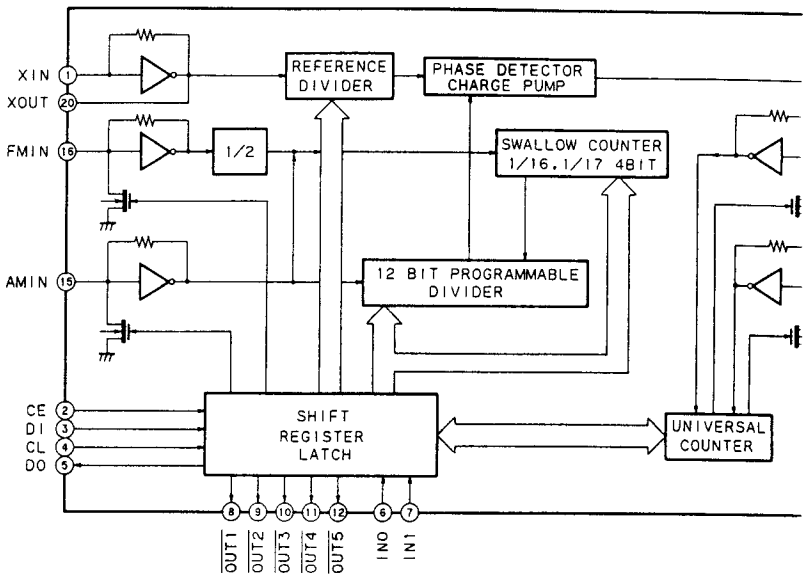



CL-155Y/PG-CD




## • IC Block Diagrams

### IC1 LC7216M

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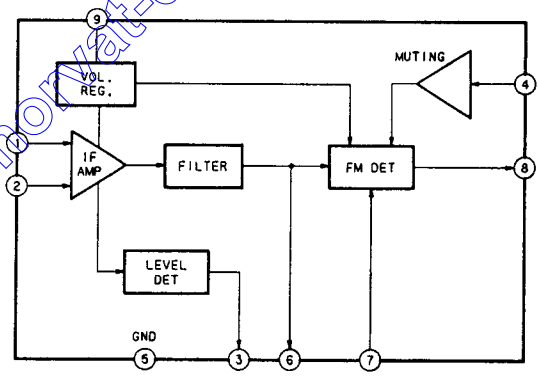


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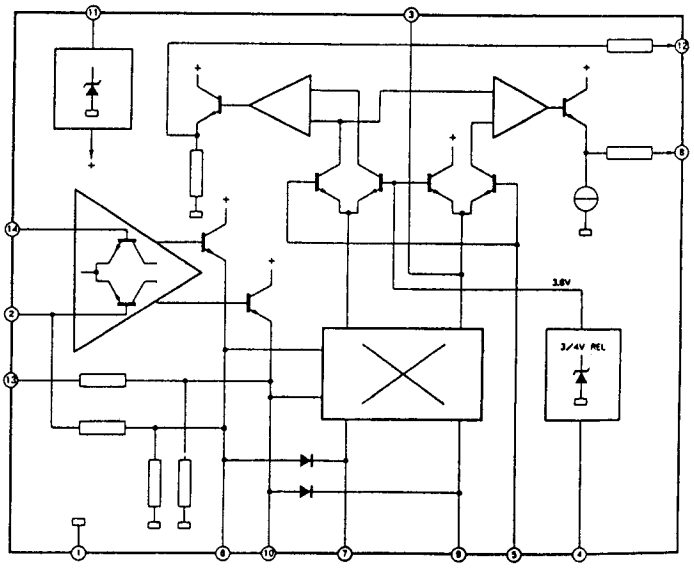

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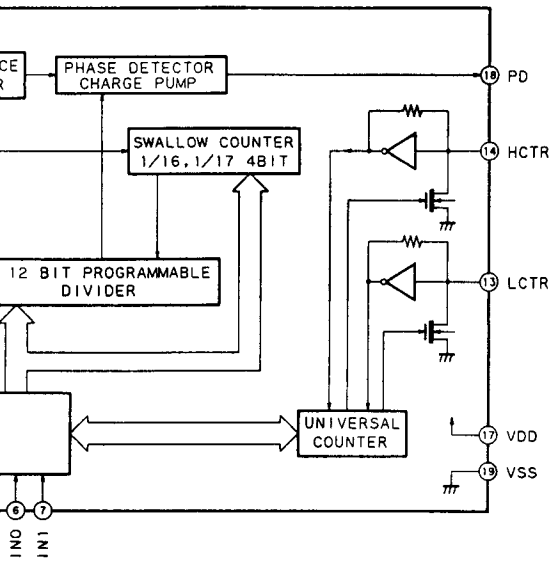
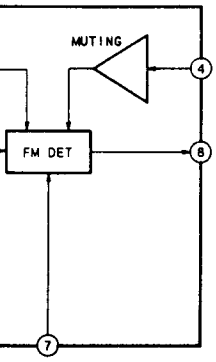
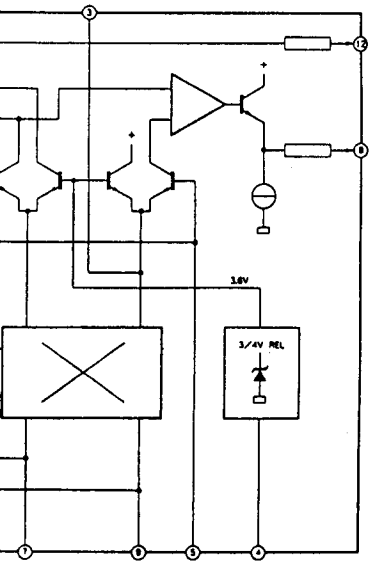
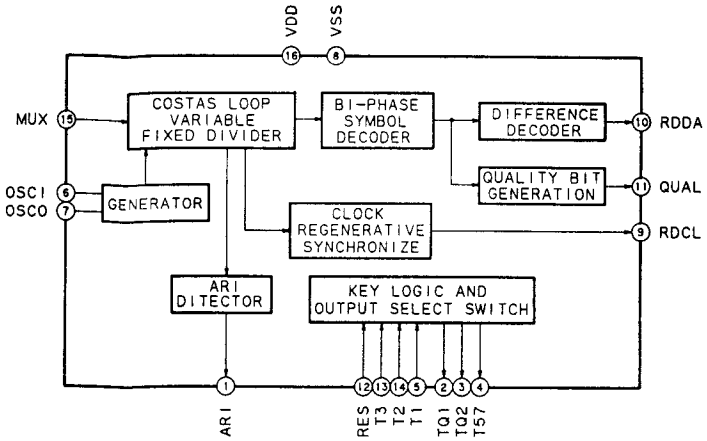


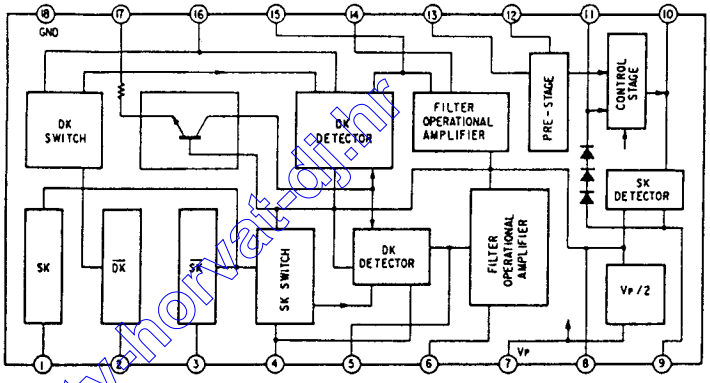



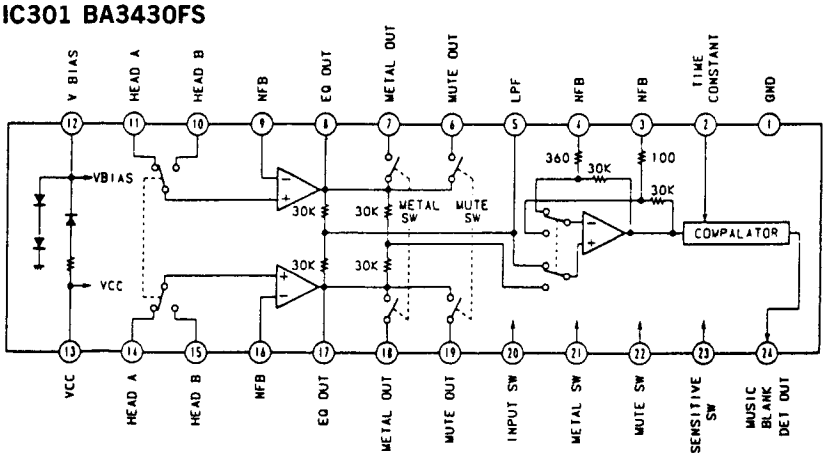

## IC41 SAF7579T




## IC50 TDA1579




## IC301 BA3430FS





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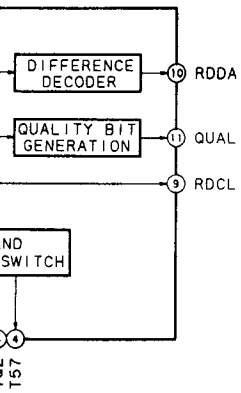
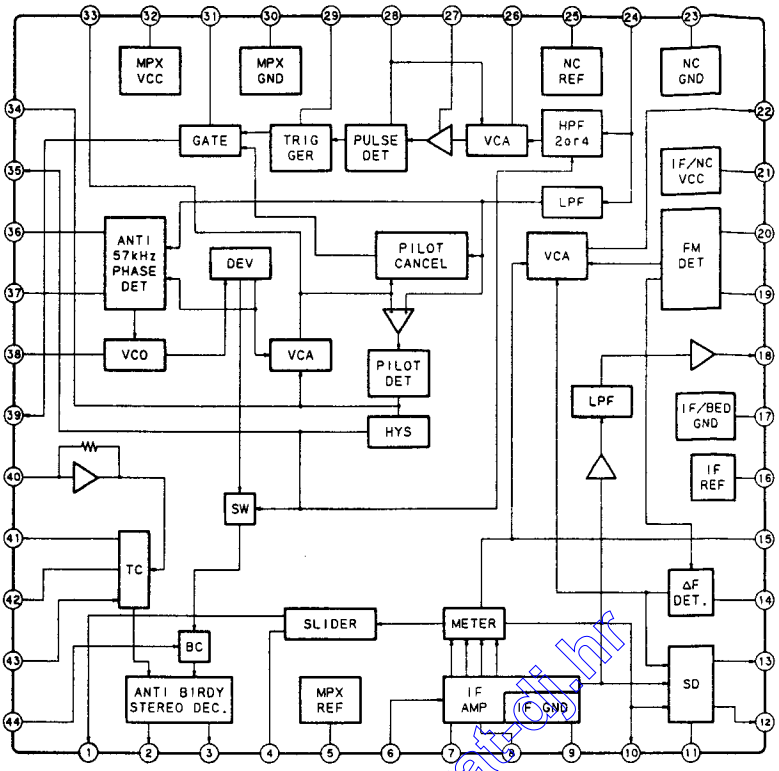
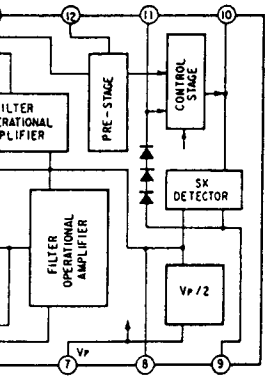
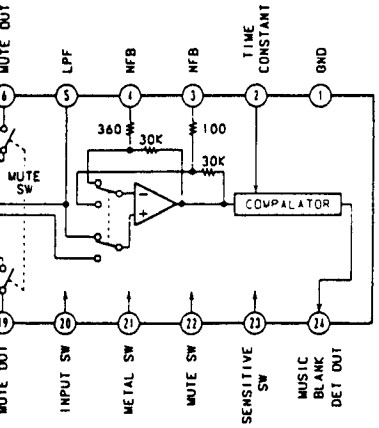
## IC60 TA8172AF

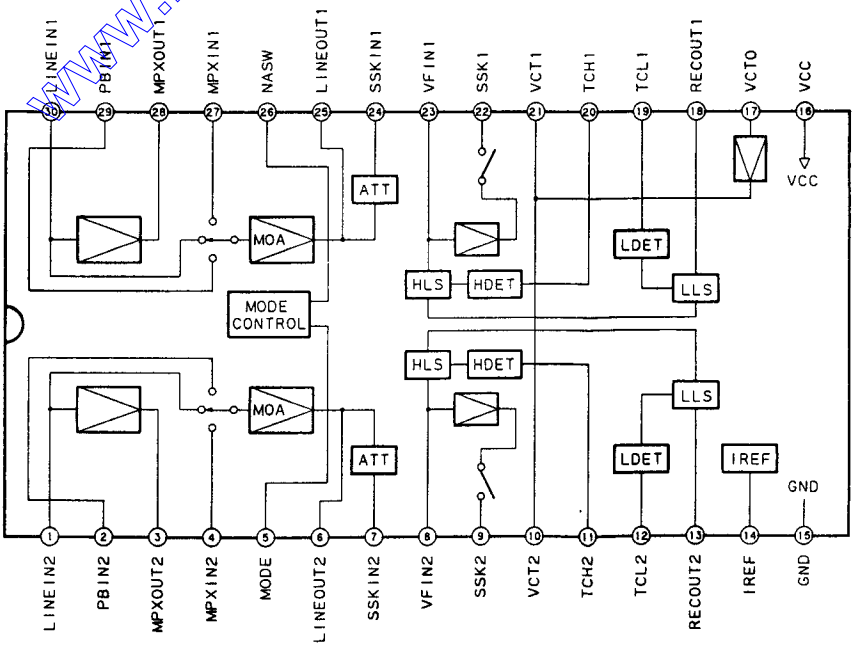



## IC311 CXA1322M

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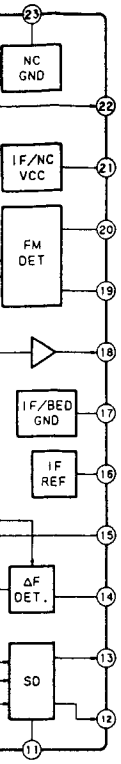
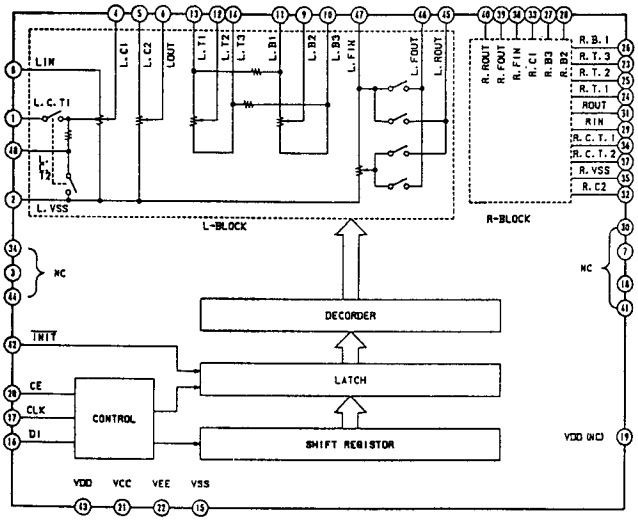
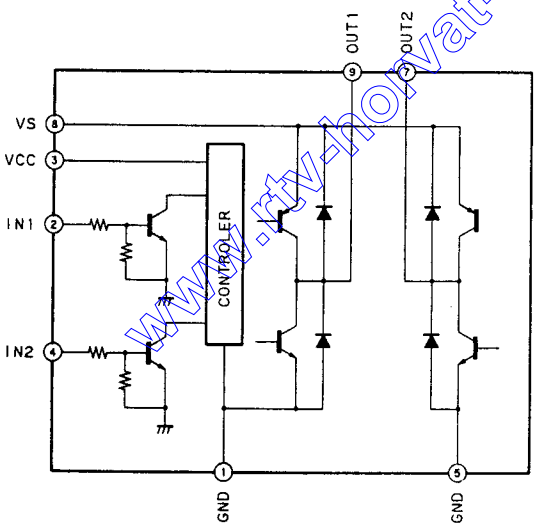
## IC321 LC7537AN

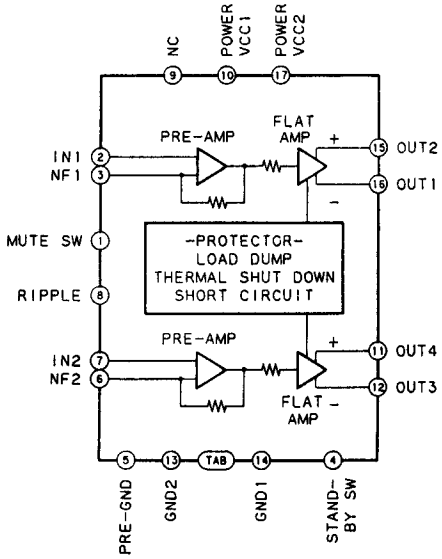


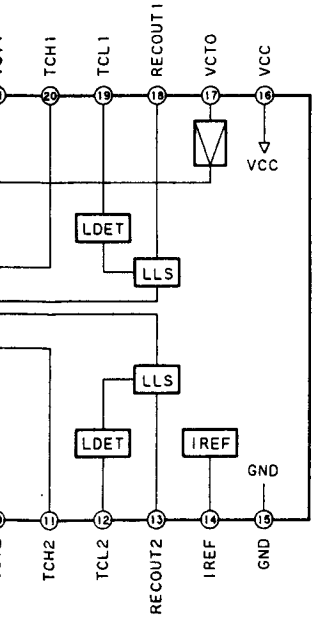




## IC431, 505 LB1638




## IC801, 901 TA8221H

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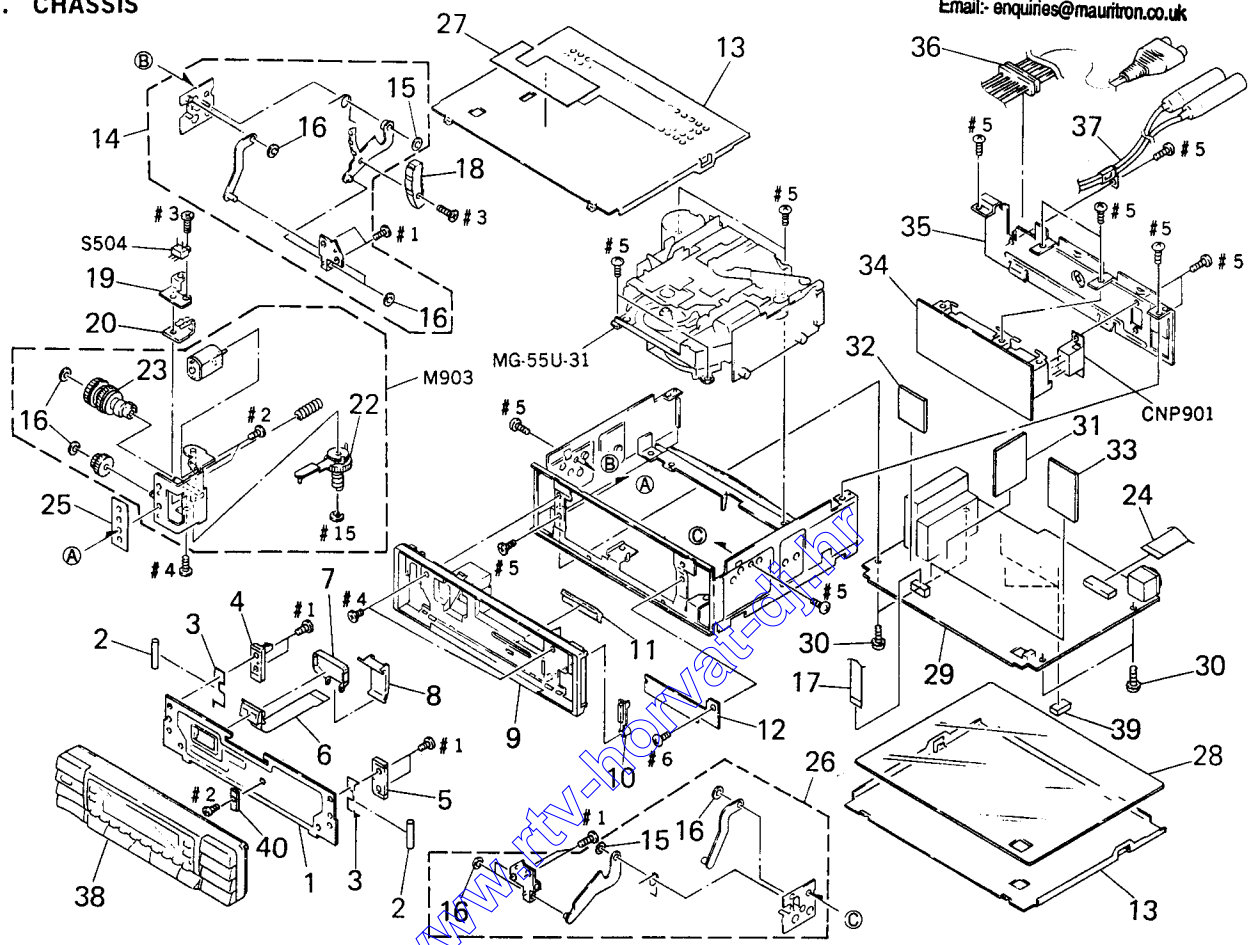
# SECTION 4
# EXPLODED VIEWS

**NOTE:**

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware(# mark) list is given in the last of this parts list.

For Service Manuals Contact
MAURITRON TECHNICAL SERVICES
8 Cherry Tree Rd, Chinnor
Oxon OX9 4QY
Tel:- 01844-351694 Fax:- 01844-352554
Email:- enquiries@mauritron.co.uk

## 4-1. CHASSIS




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 1 | * 3-367-517-01 | BRACKET (F. P) | |
| 2 | * 3-367-493-01 | ROLLER | |
| 3 | * 3-367-492-01 | SPRING (ROLLER) | |
| 4 | * 3-367-491-01 | COVER (ROLLER L) | |
| 5 | * 3-367-475-01 | COVER (ROLLER R) | |
| 6 | 1-573-539-11 | CONNECTOR (WITH F.P.C) | |
| 7 | 3-367-489-01 | COVER (FLEXIBLE) | |
| 8 | 3-367-488-01 | COVER (CONNECTOR) | |
| 9 | * 3-367-523-01 | PANEL, SUB | |
| 10 | 3-367-494-01 | BUTTON (RESET) | |
| 11 | * 3-367-495-01 | PLATE (SUB PANEL), LIGHT GUIDE | |
| 12 | * 1-640-205-11 | RESET BOARD | |
| 13 | * 3-367-525-01 | COVER | |
| 14 | X-3362-827-1 | LINK ASSY (L) | |
| 15 | L 3-321-813-01 | WASHER, COTTER POLYETHYLENE | |
| 16 | 3-325-290-21 | WASHER, STOPPER | |
| 17 | 1-690-022-11 | COARD, CONNECTION (7 CORE) | |
| 18 | 3-367-516-01 | GEAR (3) | |
| 19 | * 3-367-501-01 | BRACKET (SWITCH PC BOARD) | |
| 20 | * 3-367-513-01 | COVER (SWITCH) | |
| 22 | X-3363-338-1 | GEAR (WORM 2) ASSY | |
| 23 | X-3362-836-1 | CLUTCH ASSY | |
| 24 | 1-690-021-11 | CORD, CONNECTION (15 CORE) | |
| 25 | * 3-371-259-11 | SPACER | |
| 26 | X-3362-831-1 | LINK ASSY (R) | |
| 27 | 3-369-238-01 | LABEL, MODEL NUMBER (XR-U882) | |
| 27 | 3-369-239-01 | LABEL, MODEL NUMBER (XR-U881) | |
| 28 | * 3-367-588-01 | INSULATOR | |
| 29 | * A-3222-251-A | MAIN BOARD, COMPLETE (XR-U881) | |
| 29 | * A-3222-296-A | MAIN BOARD, COMPLETE (XR-U882) | |
| 30 | 3-344-501-11 | SCREW (+ PTT 3X8), GROUND POINT | |
| 31 | * A-3273-449-A | DIVER BOARD, COMPLETE | |
| 32 | * A-3273-577-A | AIR BOARD, COMPLETE (XR-U882) | |
| 33 | * A-3273-451-A | RDS BOARD, COMPLETE | |
| 34 | * 1-640-209-11 | POWER BOARD | |
| 35 | * 3-367-522-01 | PANEL, BACK | |
| 36 | 1-590-511-11 | CORD (WITH CONNECTOR) | |
| 37 | 1-590-525-11 | CORD (WITH CONNECTOR) | |
| 38 | * A-3252-163-A | PANEL ASSY, FRONT (XR-U881) | |
| 38 | * A-3252-222-A | PANEL ASSY, FRONT (XR-U882) | |
| 39 | 9-911-841-XX | CUSHION, CASSETTE LID | |
| 40 | 3-371-056-01 | GUID | |
| CNP901 | * 1-573-384-11 | CONNECTOR | |
| M903 | X-3362-835-1 | MOTOR BLOCK ASSY | |
| S504 | 1-570-883-11 | SWITCH, PUSH (2 KEY) (DPO/DPI) | |



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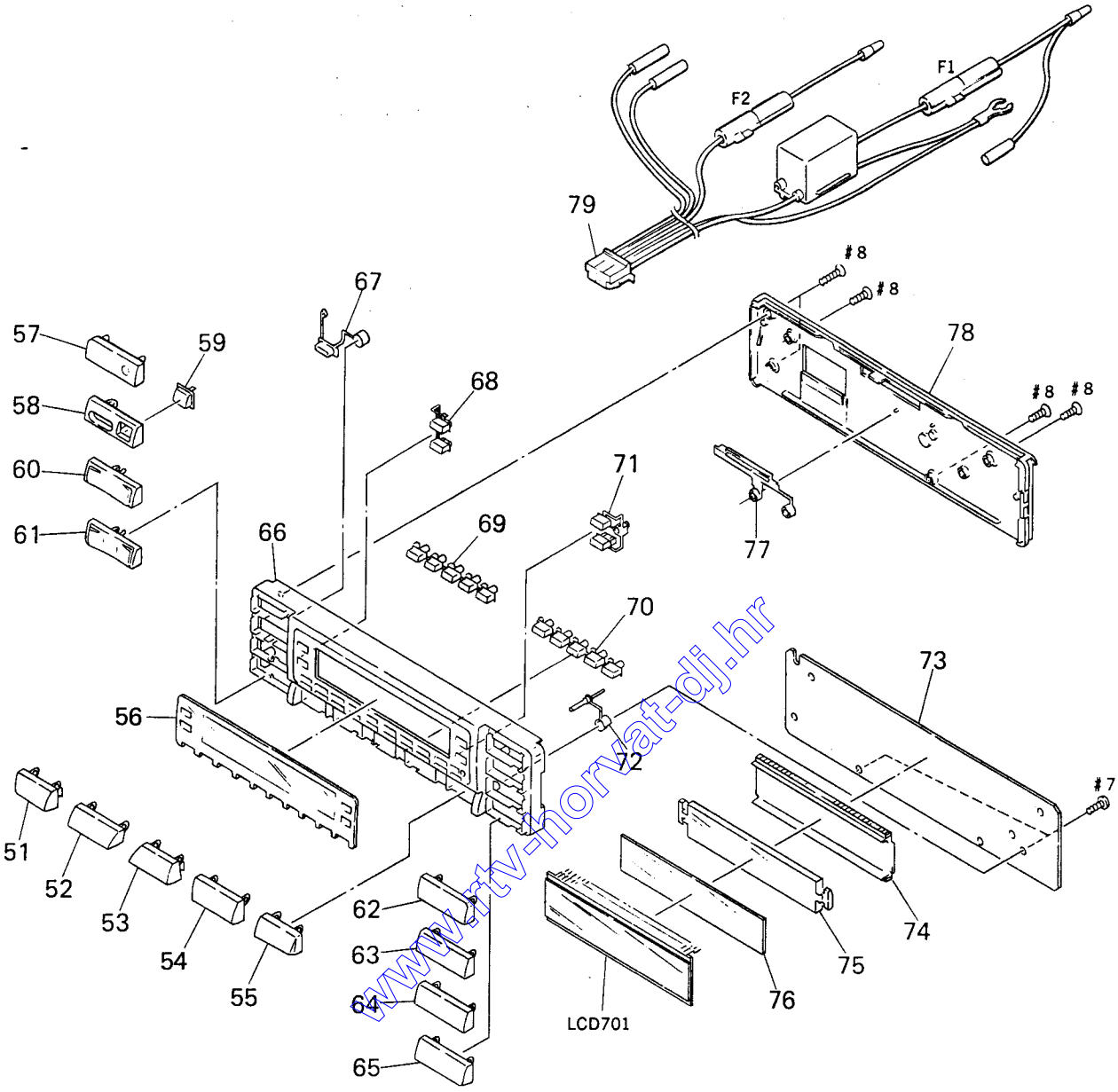
## 4-2. FRONT PANEL/POWER CORD

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| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 51 | 3-367-562-01 | BUTTON (MUTE) | |
| 52 | 3-367-561-01 | BUTTON (-) | |
| 53 | 3-367-560-01 | BUTTON (SELECT) | |
| 54 | 3-367-559-01 | BUTTON (+) | |
| 55 | 3-367-558-01 | BUTTON (LOUD) | |
| 56 | 3-367-554-11 | PLATE, INDICATION | |
| 57 | 3-367-563-01 | BUTTON (LU) | |
| 58 | 3-367-570-01 | COVER (RAY CATCHER) | |
| 59 | 3-367-567-01 | FILTER (RAY CATCHER) | |
| 60 | 3-367-565-01 | BUTTON (SEEK) | |
| 61 | 3-367-566-01 | BUTTON (MANU) | |
| 62 | 3-367-555-11 | BUTTON (RU) (XR-U881) | |
| 62 | 3-367-555-21 | BUTTON (RU) (XR-U882) | |
| 63 | 3-367-556-11 | BUTTON (RM) | |
| 64 | 3-367-556-21 | BUTTON (RM) | |
| 65 | 3-367-557-01 | BUTTON (RD) | |
| 66 | 3-367-553-01 | PANEL, FRONT | |
| 67 | 3-367-564-01 | BUTTON (OFF) | |
| 68 | 3-367-568-01 | BUTTON (2 GANG L) | |
| 69 | 3-367-572-01 | BUTTON (PRESET/5) | |
| 70 | 3-367-572-11 | BUTTON (PRESET/5) | |
| 71 | 3-367-569-01 | BUTTON (2 GANG R) | |
| 72 | 3-367-574-01 | BUTTON (RESET) | |
| 73 | * A-3222-252-A | KEY BOARD, COMPLETE | |
| 74 | * 3-367-571-01 | HOLDER (LCD) | |
| 75 | * 3-367-573-01 | PLATE (LCD), LIGHT GUIDE | |
| 76 | * 3-368-252-01 | SHEET (REFLECTOR) | |
| 77 | * 3-367-474-01 | BUTTON (LOCK) | |
| 78 | 3-367-526-01 | PANEL, FRONT BACK | |
| 79 | 1-590-522-21 | CORD (WITH CONNECTOR) 5P | |
| F1 | 1-532-457-XX | FUSE 3.15A | |
| F2 | 1-532-452-XX | FUSE 1A | |
| LCD701 | 1-809-286-11 | DISPLAY PANEL, LIQUID CRYSTAL | |



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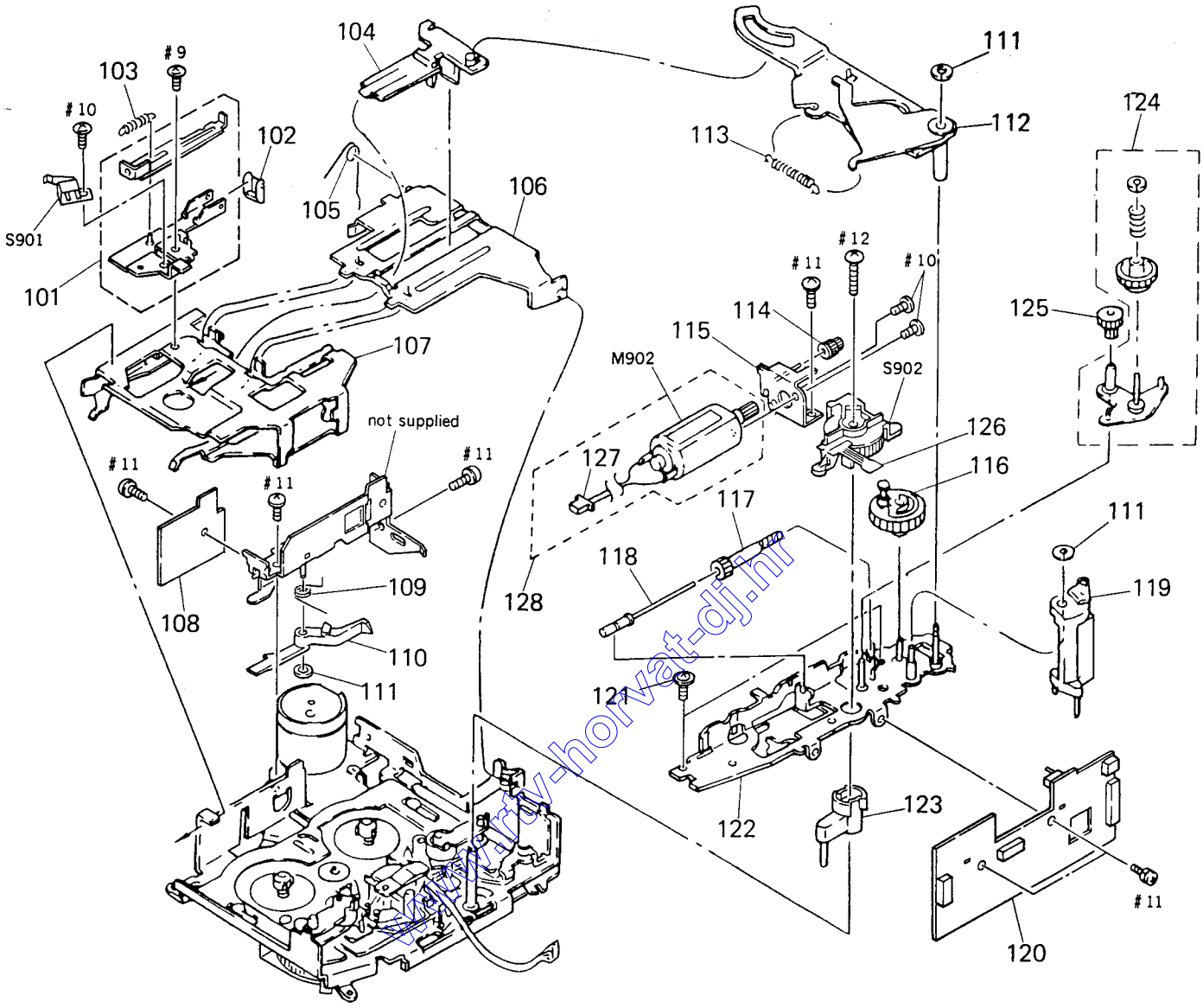
## 4-3. MECHANISM DECK BLOCK (1)

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| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 101 | X-3362-992-1 | BRACKET ASSY, SWITCH | |
| 102 | 3-368-235-01 | LEVER, CASSETTE DETECTION | |
| 103 | 3-542-475-00 | SPRING, TENSION | |
| 104 | * 3-344-118-01 | CATCHER | |
| 105 | 3-344-113-03 | SPRING | |
| 106 | * X-3362-262-1 | HANGER (F) ASSY, HOUSING | |
| 107 | * 3-344-103-21 | HOUSING, CASSETTE | |
| 108 | * 1-639-452-11 | SENS BOARD | |
| 109 | 3-344-285-01 | SPRING (F), TS | |
| 110 | 3-368-237-01 | ARM (U), TS | |
| 111 | 3-344-222-01 | WASHER | |
| 112 | * X-3344-121-1 | ARM ASSY, SUCTION | |
| 113 | 3-344-216-01 | SPRING (SUCTION ARM), TENSION | |
| 114 | 3-344-281-01 | GEAR (A), DRIVING | |
| 115 | * X-3344-142-2 | BRACKET (F) ASSY, MOTOR | |
| 116 | X-3344-119-1 | GEAR ASSY, LOADING CAM | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 117 | 3-344-156-01 | GEAR (B), DRIVING | |
| 118 | * 3-344-157-01 | SHAFT, DRIVING GEAR (B) | |
| 119 | * 3-344-260-01 | ARM, REVERSE | |
| 120 | * A-3222-258-A | EQ BOARD, COMPLETE | |
| 121 | 3-703-502-21 | SCREW | |
| 122 | * X-3362-260-3 | CHASSIS (F) ASSY, MCU | |
| 123 | X-3344-117-1 | ARM ASSY, MODE | |
| 124 | A-3239-954-A | GEAR ASSY, DRIVING ARM | |
| 125 | 3-344-108-01 | GEAR (A), FRICTION | |
| 126 | 1-635-519-12 | PC BOARD, FLEXIBLE | |
| 127 | * 1-563-470-11 | HOUSING, CONNECTOR 2P | |
| 128 | A-3252-174-A | MOTOR SUB ASSY (U), L | |
| M902 | X-3362-826-1 | GEAR ASSY, MOTOR | |
| S901 | 1-572-765-11 | SWITCH, MICRO (CASSETTE HALF) | |
| S902 | 1-572-397-11 | SWITCH, ROTARY SLIDE | |



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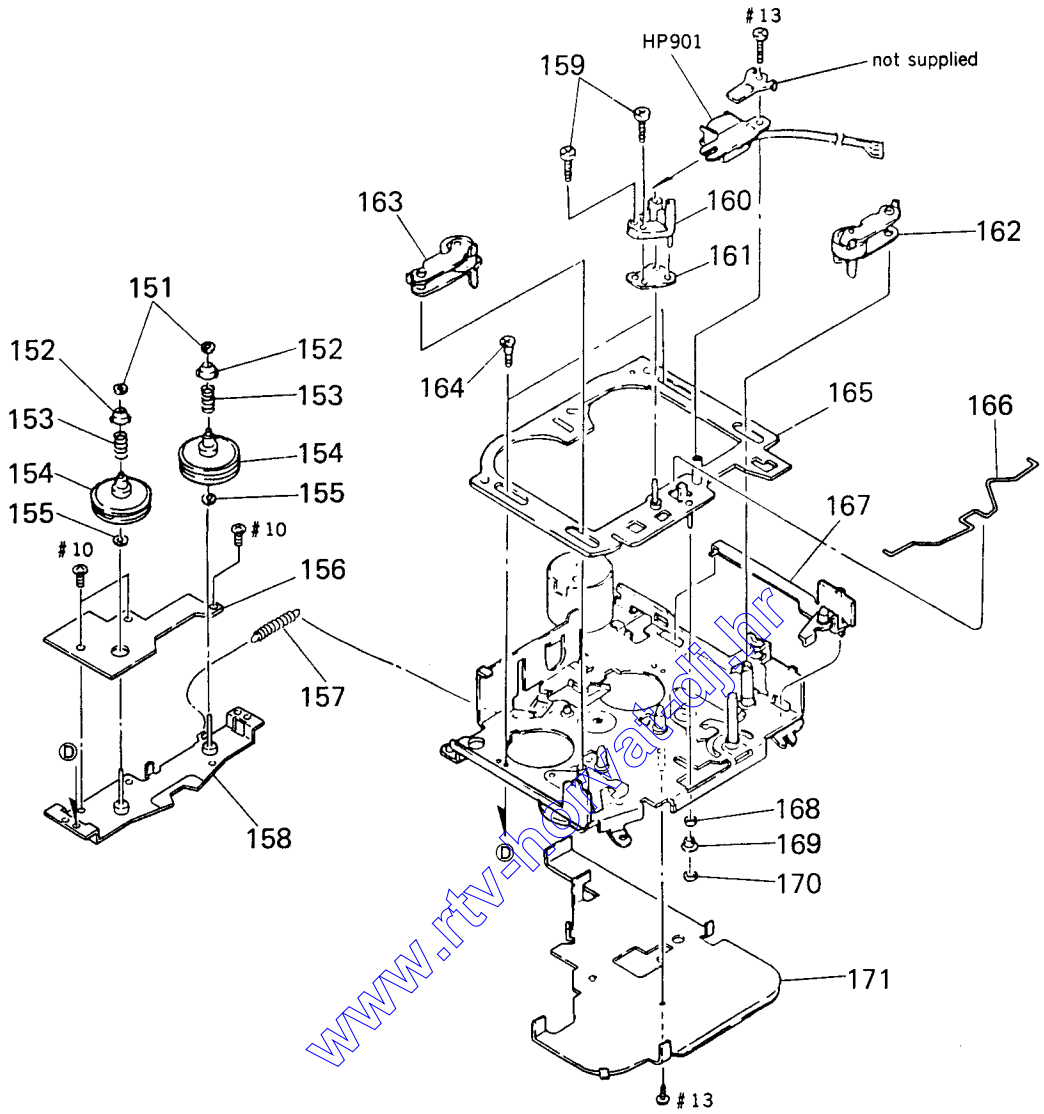
## 4-4. MECHANISM DECK BLOCK (2)




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 151 | 3-364-151-01 | WASHER | |
| 152 | 3-365-725-01 | CAP (F), REEL | |
| 153 | 3-344-143-01 | SPRING (BT), COMPRESSION | |
| 154 | X-3362-214-1 | TABLE (F) ASSY, REEL | |
| 155 | 3-701-437-01 | POLY-SLIDER (A) | |
| 156 | * 1-639-453-11 | REEL BOARD | |
| 157 | 3-344-217-01 | SPRING(CAM LOCK LEVER), TENTION | |
| 158 | * X-3344-144-2 | BRACKET (F) ASSY, REEL TABLE | |
| 159 | 3-364-122-01 | SCREW (M1.4X5.5), ADJ | |
| 160 | 3-344-127-01 | ARM, DAH | |
| 161 | 3-344-128-01 | SEAM, DAH | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 162 | X-3344-116-1 | ARM (F) ASSY, PINCH | |
| 163 | X-3344-115-1 | ARM (R) ASSY, PINCH | |
| 164 | 3-344-110-01 | SCREW (HB), STEP | |
| 165 | X-3362-261-1 | BASE ASSY (R), HEAD | |
| 166 | * 3-363-909-01 | SPRING (R), PINCH PRESS | |
| 167 | * X-3344-118-1 | LEVER ASSY, RVS CONVERSION | |
| 168 | 3-344-117-01 | ROLLER (B), H/B | |
| 169 | 3-344-116-01 | ROLLER (A), H/B | |
| 170 | 3-344-222-01 | WASHER | |
| 171 | * 3-344-220-01 | COVER, MD | |
| HP901 | 1-543-800-21 | HEAD, MAGNETIC (PLAYBACK) | |



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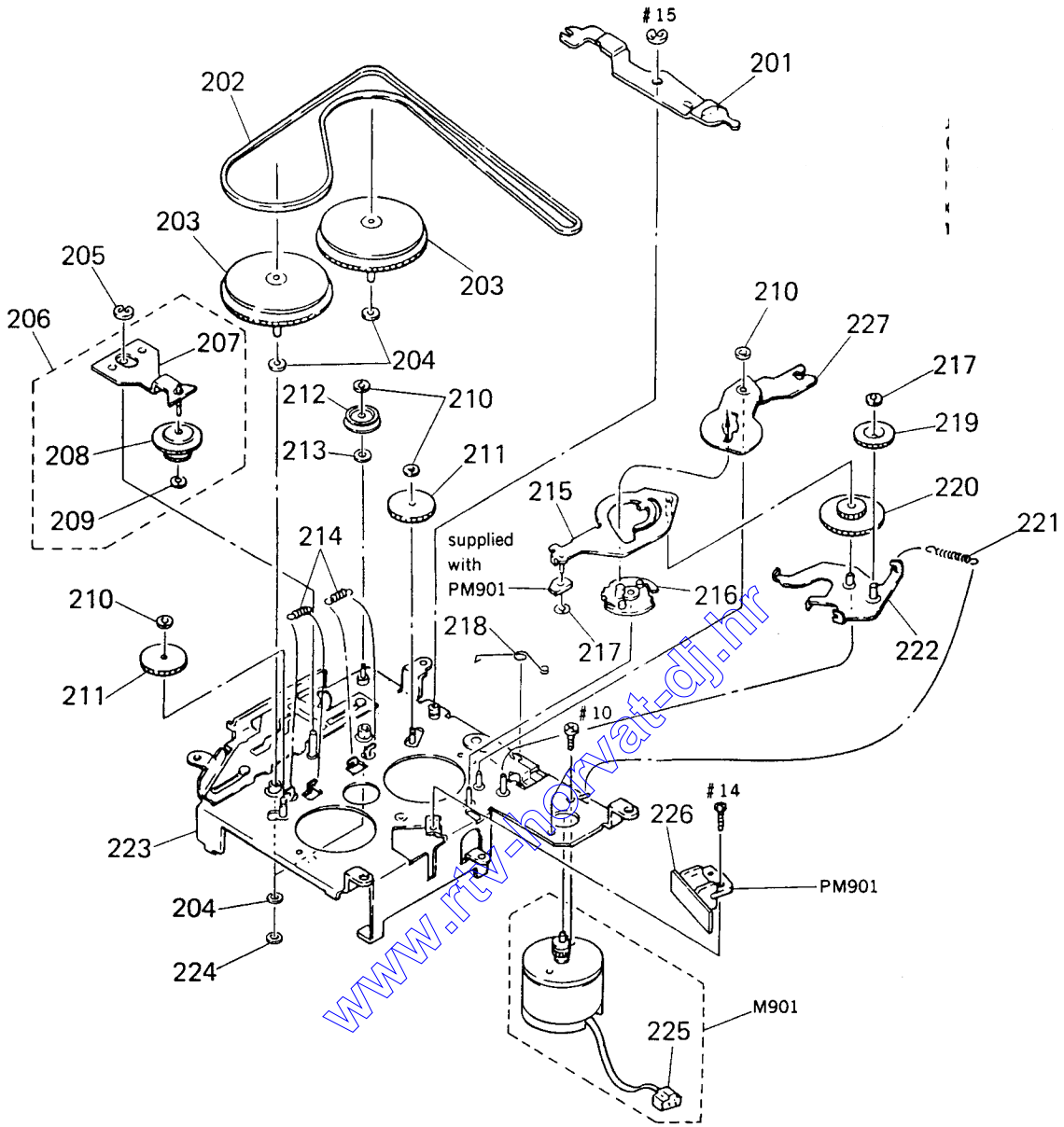
## 4-5. MECHANISM DECK BLOCK (3)




| Ref. No. | | Part No. | Description | Remark |
|---|---|---|---|---|
| 201 | * | X-3344-139-1 | ARM ASSY, POWER | |
| 202 | | 3-344-115-01 | BELT | |
| 203 | | 3-344-261-01 | FLYWHEEL (M) | |
| 204 | | 3-701-437-01 | POLY-SLIDER (A) | |
| 205 | | 3-590-768-00 | RING (A), E | |
| 206 | | A-3239-947-A | GEAR SUB ASSY, FR | |
| 207 | * | X-3344-101-1 | ARM ASSY, FR | |
| 208 | | X-3344-102-1 | GEAR ASSY, FR | |
| 209 | | 3-344-224-01 | WASHER | |
| 210 | | 3-344-222-01 | WASHER | |
| 211 | | 3-344-104-01 | GEAR, PLAY | |
| 212 | | 3-344-263-01 | PULLEY (M), MIDWAY | |
| 213 | | 3-701-436-01 | WASHER, 1.6 | |
| 214 | | 3-344-218-02 | SPRING (PLAY ARM), TENSION | |
| 215 | | X-3344-107-1 | LEVER ASSY, CAM LOCK | |

| Ref. No. | | Part No. | Description | Remark |
|---|---|---|---|---|
| 216 | | 3-344-119-01 | GEAR, RVS CAM | |
| 217 | | 3-344-223-01 | WASHER | |
| 218 | | 3-344-279-01 | SPRING, BUFFER | |
| 219 | | 3-344-147-01 | GEAR (A), RVS | |
| 220 | | 3-344-146-01 | GEAR (B), RVS | |
| 221 | | 3-344-215-01 | SPRING, TENSION | |
| 222 | * | X-3344-106-1 | LEVER ASSY, RVS GEAR (B) | |
| 223 | * | X-3362-215-2 | CHASSIS (L) ASSY, MECHANICAL | |
| 224 | | 3-364-151-01 | WASHER | |
| 225 | * | 1-563-470-11 | HOUSING, CONNECTOR 2P | |
| 226 | | 1-639-454-11 | PL BOARD | |
| 227 | * | X-3344-114-1 | LEVER ASSY, RVS | |
| M901 | | X-3344-136-3 | CAPSTAN MOTOR SUB ASSY | |
| PM901 | | 1-454-461-11 | SOLENOID, PLUNGER | |

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EQ

# SECTION 5
# ELECTRICAL PARTS LIST

**NOTE:**

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- CAPACITORS
  uF: $\mu$F
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: $\mu$H
- SEMICONDUCTORS
  In each case, u: $\mu$, for example:
  uA...: $\mu$A..., uPA...: $\mu$PA...,
  uPB...: $\mu$PB..., uPC...: $\mu$PC...,
  uPD...: $\mu$PD....

When indicating parts by reference number, please include the board name.

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | A-3222-258-A | EQ BOARD, COMPLETE | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C101 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C102 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C103 | 1-126-285-11 | ELECT | 47uF | 20% | 6.3V |
| C104 | 1-137-338-11 | FILM CHIP | 0.01uF | 5% | 250V |
| C201 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C202 | 1-130-467-00 | MYLAR | 470PF | 5% | 50V |
| C203 | 1-126-285-11 | ELECT | 47uF | 20% | 6.3V |
| C204 | 1-137-338-11 | FILM CHIP | 0.01uF | 5% | 250V |
| C302 | 1-126-189-11 | ELECT | 0.22uF | 20% | 50V |
| C303 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16v |
| C304 | 1-124-779-00 | ELECT CHIP | 10uF | 20% | 16v |
| C305 | 1-163-009-11 | CERAMIC CHIP | 0.001uF | 10% | 50V |
| C306 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C307 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C308 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C309 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C401 | 1-163-081-00 | CERAMIC CHIP | 0.22uF | | 25V |
| | | < CONNECTOR > | | | |
| CNP301 | 1-569-806-21 | CONNECTOR, FPC5P | | | |
| CNP302 | 1-569-363-21 | CONNECTOR, FPC 15P | | | |
| CNP401 * | 1-506-998-11 | PIN, CONNECTOR (PC BOARD) 2P | | | |
| CNP402 | 1-569-806-21 | CONNECTOR, FPC5P | | | |
| | | < DIODE > | | | |
| D301 | 8-719-976-31 | DIODE 1SS332 | | | |
| D302 | 8-719-976-31 | DIODE 1SS332 | | | |
| D303 | 8-719-976-31 | DIODE 1SS332 | | | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < IC > | | | |
| IC301 | 8-759-988-33 | IC BA3430FS | | | |
| | | < RESISTOR > | | | |
| R101 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R102 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R103 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R104 | 1-216-677-11 | METAL CHIP | 12K | 0.5% | 1/10W |
| R105 | 1-216-681-11 | METAL CHIP | 18K | 0.5% | 1/10W |
| R201 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R202 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R203 | 1-216-109-00 | METAL CHIP | 330K | 5% | 1/10W |
| R204 | 1-216-677-11 | METAL CHIP | 12K | 0.5% | 1/10W |
| R205 | 1-216-681-11 | METAL CHIP | 18K | 0.5% | 1/10W |
| R301 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R302 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R303 | 1-216-295-00 | METAL CHIP | 0 | 5% | 1/10W |
| R304 | 1-216-029-00 | METAL CHIP | 150 | 5% | 1/10W |
| | | < VARIABLE RESISTOR > | | | |
| RV101 | 1-241-552-11 | RES, ADJ CERMET 470 | | | |
| RV201 | 1-241-552-11 | RES, ADJ CERMET 470 | | | |
| | | < SWITCH > | | | |
| S401 | 1-570-953-11 | SWITCH, PUSH (1 KEY) | | | (TAPE IN) |
| S402 | 1-570-953-11 | SWITCH, PUSH (1 KEY) | | | (R/F) |

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| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| | * A-3222-252-A | KEY BOARD, COMPLETE | | |
| | | ********** | | |
| | * 3-367-571-01 | HOLDER (LCD) | | |
| | * 3-367-573-01 | PLATE (LCD), LIGHT GUIDE | | |
| | * 3-368-252-01 | SHEET (REFLECTOR) | | |
| | | < CAPACITOR > | | |
| C701 | 1-164-222-11 | CERAMIC CHIP 0.22uF | | 25V |
| C702 | 1-163-141-00 | CERAMIC CHIP 0.001uF | 5% | 50V |
| C704 | 1-164-232-11 | CERAMIC CHIP 0.01uF | | 50V |
| C705 | 1-163-037-11 | CERAMIC CHIP 0.022uF | 10% | 25V |
| C706 | 1-135-149-21 | TANTALUM CHIP 2.2uF | 20% | 10V |
| C707 | 1-164-222-11 | CERAMIC CHIP 0.22uF | | 25V |
| C708 | 1-164-232-11 | CERAMIC CHIP 0.01uF | | 50V |
| | | < CONNECTOR > | | |
| CNP701 | 1-580-806-11 | CONNECTOR, PLUG 10P | | |
| | | < DIODE > | | |
| D701 | 8-719-977-00 | DIODE DTZ5.1C | | |
| D702 | 8-719-977-07 | DIODE DTZ6.2B | | |
| D703 | 8-719-976-31 | DIODE 1SS332 | | |
| D704 | 8-719-976-31 | DIODE 1SS332 | | |
| D705 | 8-719-976-31 | DIODE 1SS332 | | |
| D706 | 8-719-977-07 | DIODE DTZ6.2B | | |
| D707 | 8-719-977-07 | DIODE DTZ6.2B | | |
| D708 | 8-719-977-07 | DIODE DTZ6.2B | | |
| D709 | 8-719-976-31 | DIODE 1SS332 | | |
| D711 | 8-719-976-31 | DIODE 1SS332 | | |
| D712 | 8-719-976-31 | DIODE 1SS332 | | |
| D713 | 8-719-976-31 | DIODE 1SS332 | | |
| D714 | 8-719-976-31 | DIODE 1SS332 | | |
| D715 | 8-719-976-31 | DIODE 1SS332 | | |
| D716 | 8-719-976-31 | DIODE 1SS332 | | |
| D717 | 8-719-977-00 | DIODE DTZ5.1C | | |
| D718 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D719 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D720 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D721 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D722 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D723 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D724 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D725 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D726 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D727 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D728 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D729 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D730 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D731 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D732 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D733 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D734 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D735 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D736 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D737 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D738 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D739 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D740 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D741 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| D742 | 8-719-987-45 | TRANSISTOR CL-155Y/PG-CD | | |
| | | < IC > | | |
| IC701 | 8-759-515-60 | IC RS-20 | | |
| IC702 | 8-759-154-94 | IC UPD75008GB-632-3B4 | | |
| IC703 | 8-759-246-16 | IC TC9240F | | |
| IC704 | 8-759-981-65 | IC LM2903M | | |
| | | < COIL > | | |
| L701 | 1-410-284-31 | INDUCTOR CHIP 10uH | | |
| | | < LCD > | | |
| LCD701 | 1-809-286-11 | DISPLAY PANEL, LIQUID CRYSTAL | | |
| | | < PILOT LAMP > | | |
| | 1-518-678-21 | LAMP, PILOT | | |
| | 1-518-678-21 | LAMP, PILOT | | |
| | 1-518-677-21 | LAMP, PILOT | | |
| PL704 | 1-518-677-21 | LAMP, PILOT | | |
| | | < TRANSISTOR > | | |
| Q701 | 8-729-904-57 | TRANSISTOR DTB114EK | | |
| Q702 | 8-729-900-53 | TRANSISTOR DTC114EK | | |
| Q703 | 8-729-904-57 | TRANSISTOR DTB114EK | | |
| Q704 | 8-729-900-53 | TRANSISTOR DTC114EK | | |
| Q705 | 8-729-904-66 | TRANSISTOR DTD113EK | | |
| Q706 | 8-729-904-66 | TRANSISTOR DTD113EK | | |
| Q707 | 8-729-904-66 | TRANSISTOR DTD113EK | | |
| Q708 | 8-729-904-66 | TRANSISTOR DTD113EK | | |
| Q709 | 8-729-901-11 | TRANSISTOR DTA124EK | | |
| Q710 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | |
| Q711 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | |
| | | < RESISTOR > | | |
| R701 | 1-216-049-00 | METAL CHIP | 1K 5% | 1/10W |
| R702 | 1-216-025-00 | METAL CHIP | 100 5% | 1/10W |
| R703 | 1-216-089-00 | METAL CHIP | 47K 5% | 1/10W |



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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R704 | 1-216-081-00 | METAL CHIP | 22K | 5% 1/10W | |
| R705 | 1-216-065-00 | METAL CHIP | 4.7K | 5% 1/10W | |
| R706 | 1-216-065-00 | METAL CHIP | 4.7K | 5% 1/10W | |
| R707 | 1-216-073-00 | METAL CHIP | 10K | 5% 1/10W | |
| R708 | 1-216-105-00 | METAL CHIP | 220K | 5% 1/10W | |
| R709 | 1-216-105-00 | METAL CHIP | 220K | 5% 1/10W | |
| R710 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R711 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R712 | 1-216-081-00 | METAL CHIP | 22K | 5% 1/10W | |
| R713 | 1-216-073-00 | METAL CHIP | 10K | 5% 1/10W | |
| R714 | 1-216-063-00 | METAL CHIP | 3.9K | 5% 1/10W | |
| R715 | 1-216-041-00 | METAL CHIP | 470 | 5% 1/10W | |
| R716 | 1-216-097-00 | METAL CHIP | 100K | 5% 1/10W | |
| R717 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |
| R718 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R719 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R720 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R721 | 1-216-049-00 | METAL CHIP | 1K | 5% 1/10W | |
| R722 | 1-216-182-00 | METAL GLAZE | 220 | 5% 1/8W | |
| R723 | 1-216-186-00 | METAL GLAZE | 330 | 5% 1/8W | |
| R724 | 1-216-186-00 | METAL GLAZE | 330 | 5% 1/8W | |
| R725 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R726 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R727 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R728 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R729 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R730 | 1-216-033-00 | METAL CHIP | 220 | 5% 1/10W | |
| R734 | 1-216-089-00 | METAL CHIP | 47K | 5% 1/10W | |

< SWITCH >

| | | |
|---|---|---|
| S701 | 1-572-768-11 | SWITCH, KEY BOARD (CD) |
| S702 | 1-572-768-11 | SWITCH, KEY BOARD (MUTE) |
| S703 | 1-572-768-11 | SWITCH, KEY BOARD (SELECT) |
| S704 | 1-572-768-11 | SWITCH, KEY BOARD (MANU+/DISC FF) |
| S705 | 1-572-768-11 | SWITCH, KEY BOARD (MANU-/DISC REW) |
| S706 | 1-572-768-11 | SWITCH, KEY BOARD (+) |
| S707 | 1-572-768-11 | SWITCH, KEY BOARD (-) |
| S708 | 1-572-768-11 | SWITCH, KEY BOARD (LOUD) |
| S709 | 1-572-768-11 | SWITCH, KEY BOARD (TAPE ◀II▶) |
| S710 | 1-572-768-11 | SWITCH, KEY BOARD (INTRO/1) |
| S711 | 1-572-768-11 | SWITCH, KEY BOARD (BANK/3) |
| S712 | 1-572-768-11 | SWITCH, KEY BOARD (SEEK+/AMS|◀◀) |
| S713 | 1-572-768-11 | SWITCH, KEY BOARD (SEEK-/AMS▶▶|) |
| S714 | 1-572-768-11 | SWITCH, KEY BOARD (REPEAT/2) |
| S715 | 1-572-768-11 | SWITCH, KEY BOARD (0) |
| S716 | 1-572-768-11 | SWITCH, KEY BOARD (TV/VIDEO) |
| S717 | 1-572-768-11 | SWITCH, KEY BOARD (7) |
| S718 | 1-572-768-11 | SWITCH, KEY BOARD (8) |
| S719 | 1-572-768-11 | SWITCH, KEY BOARD (M.SCAN/BTM) |
| S720 | 1-572-768-11 | SWITCH, KEY BOARD (DSPL) |
| S721 | 1-572-768-11 | SWITCH, KEY BOARD (9) |
| S722 | 1-572-768-11 | SWITCH, KEY BOARD (□□ FILE) |
| S723 | 1-572-768-11 | SWITCH, KEY BOARD (FM/AM) |
| S724 | 1-572-768-11 | SWITCH, KEY BOARD (BL.SKIP/6) |
| S725 | 1-572-768-11 | SWITCH, KEY BOARD (ATA/5) |
| S726 | 1-572-768-11 | SWITCH, KEY BOARD (OFF) |
| S727 | 1-572-768-11 | SWITCH, KEY BOARD (OPEN ⏏) |
| S728 | 1-572-768-11 | SWITCH, KEY BOARD (SHUF/4) |
| S729 | 1-572-768-11 | SWITCH, KEY BOARD (SENS) |

< VIBRATOR >

| | | |
|---|---|---|
| X701 | 1-567-775-11 | VIBRATOR, CERAMIC (4.19MHZ) |

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| | | |
|---|---|---|
| * A-3222-296-A | | MAIN BOARD, COMPLETE (XR-U882) |
| * A-3222-215-A | | MAIN BOARD, COMPLETE (XR-U881) |
| | | ********** |
| * A-3273-449-A | | DIVER BOARD, COMPLETE |
| | | ********** |
| * A-3273-451-A | | RDS BOARD, COMPLETE |
| | | ********** |
| * A-3273-557-A | | ARI BOARD, COMPLETE (XR-U882) |
| | | ********** |
| 1-690-021-11 | | CORD, CONNECTION (15 CORE) |
| 1-690-022-11 | | CORD, CONNECTION (7 CORE) |

< CAPACITOR >

| | | | | | |
|---|---|---|---|---|---|
| C1 | 1-126-162-11 | ELECT (XR-U882) | 3.3uF | 20% | 50V |
| C2 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C3 | 1-136-162-00 | FILM | 0.056uF | 5% | 50V |
| C4 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C5 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C6 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C7 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C8 | 1-130-479-00 | MYLAR | 0.0047uF | 5% | 50V |
| C9 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C10 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C11 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C12 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C13 | 1-164-182-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C14 | 1-163-833-00 | CERAMIC CHIP | 0.068uF | | 25V |
| C15 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C16 | 1-124-499-11 | ELECT | 1uF | 20% | 50V |
| C17 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C18 | 1-163-833-11 | CERAMIC CHIP | 0.068uF | 10% | 25V |
| C19 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C20 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |

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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C21 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C22 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C23 | 1-164-182-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C24 | 1-163-833-00 | CERAMIC CHIP | 0.068uF | | 25V |
| C25 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C26 | 1-124-499-11 | ELECT | 1uF | 20% | 50V |
| C27 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C28 | 1-163-833-11 | CERAMIC CHIP | 0.068uF | 10% | 25V |
| C29 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C30 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C31 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C32 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| C33 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C34 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C35 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C36 | 1-164-006-11 | CERAMIC CHIP | 0.33uF | 10% | 16V |
| C37 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C38 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C39 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C40 | 1-163-119-00 | CERAMIC CHIP | 120PF | 5% | 50V |
| C41 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C42 | 1-163-097-00 | CERAMIC CHIP | 15PF | 5% | 50V |
| C43 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C44 | 1-124-229-00 | ELECT | 33uF | 20% | 10V |
| C45 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C46 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C47 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C48 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C49 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C50 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C51 | 1-164-704-91 | CERAMIC CHIP (XR-U882) | 0.0033uF | 5% | 50V |
| C52 | 1-163-245-11 | CERAMIC CHIP (XR-U882) | 56PF | 5% | 50V |
| C53 | 1-126-163-11 | ELECT (XR-U882) | 4.7uF | 20% | 50V |
| C54 | 1-136-163-00 | FILM (XR-U882) | 0.068uF | 5% | 50V |
| C55 | 1-136-163-00 | FILM (XR-U882) | 0.068uF | 5% | 50V |
| C56 | 1-163-038-00 | CERAMIC CHIP (XR-U882) | 0.1uF | | 25V |
| C57 | 1-163-809-11 | CERAMIC CHIP (XR-U882) | 0.047uF | 10% | 25V |
| C58 | 1-163-809-11 | CERAMIC CHIP (XR-U882) | 0.047uF | 10% | 25V |
| C59 | 1-163-038-00 | CERAMIC CHIP (XR-U882) | 0.1uF | | 25V |
| C60 | 1-163-809-11 | CERAMIC CHIP (XR-U882) | 0.047uF | 10% | 25V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C61 | 1-163-038-00 | CERAMIC CHIP (XR-U882) | 0.1uF | | 25V |
| C62 | 1-163-833-00 | CERAMIC CHIP (XR-U882) | 0.068uF | | 25V |
| C63 | 1-163-833-00 | CERAMIC CHIP (XR-U882) | 0.068uF | | 25V |
| C64 | 1-135-177-21 | TANTALUM CHIP | 1uF | 20% | 20V |
| C65 | 1-135-177-21 | TANTALUM CHIP | 1uF | 20% | 20V |
| C66 | 1-163-077-00 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C67 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C68 | 1-110-351-11 | MYLAR | 0.001uF | 5% | 50V |
| C69 | 1-164-006-11 | CERAMIC CHIP | 0.33uF | 10% | 16V |
| C70 | 1-164-343-11 | CERAMIC CHIP | 0.056uF | 10% | 25V |
| C71 | 1-128-172-11 | ELECT | 47uF | 20% | 6.3V |
| C72 | 1-124-257-00 | ELECT | 2.2uF | 20% | 50V |
| C73 | 1-163-157-00 | FILM | 0.022uF | 5% | 50V |
| C74 | 1-163-157-00 | FILM | 0.022uF | 5% | 50V |
| C75 | 1-163-077-00 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C76 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C77 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C78 | 1-163-141-00 | CERAMIC CHIP | 0.001uF | 5% | 50V |
| C79 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C80 | 1-164-182-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C81 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C82 | 1-163-833-00 | CERAMIC CHIP | 0.068uF | | 25V |
| C83 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C84 | 1-135-177-21 | TANTALUM CHIP | 1uF | 20% | 20V |
| C85 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C86 | 1-163-103-00 | CERAMIC CHIP | 27PF | 5% | 50V |
| C87 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C88 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C89 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C90 | 1-163-077-00 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C91 | 1-136-169-00 | FILM | 0.22uF | 5% | 50V |
| C92 | 1-163-077-00 | CERAMIC CHIP | 0.1uF | 10% | 25V |
| C93 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C94 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C95 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C96 | 1-164-695-11 | CERAMIC CHIP | 0.0022uF | 5% | 50V |
| C97 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C98 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C99 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C110 | 1-136-173-00 | FILM | 0.47uF | 5% | 50V |
| C111 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V |
| C112 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V |
| C113 | 1-128-341-11 | ELECT | 0.56uF | 20% | 50V |
| C114 | 1-124-252-00 | ELECT | 0.33uF | 20% | 50V |
| C121 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C122 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |

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**MAIN** **DIVER** **RDS** **ARI**

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C123 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C124 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C125 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C126 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C127 | 1-130-476-00 | MYLAR | 0.0027uF | 5% | 50V |
| C128 | 1-136-162-00 | FILM | 0.056uF | 5% | 50V |
| C129 | 1-136-162-00 | FILM | 0.056uF | 5% | 50V |
| C130 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C131 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C132 | 1-126-300-11 | ELECT | 0.47uF | 20% | 50V |
| C133 | 1-130-476-00 | MYLAR | 0.0027uF | 5% | 50V |
| C134 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C135 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C136 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C137 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C139 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C140 | 1-131-375-00 | TANTALUM | 4.7uF | 20% | 10V |
| C210 | 1-136-173-00 | FILM | 0.47uF | 5% | 50V |
| C211 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V |
| C212 | 1-130-475-00 | MYLAR | 0.0022uF | 5% | 50V |
| C213 | 1-128-341-11 | ELECT | 0.56uF | 20% | 50V |
| C214 | 1-124-252-00 | ELECT | 0.33uF | 20% | 50V |
| C221 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C222 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C223 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C224 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C225 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C226 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C227 | 1-130-476-00 | MYLAR | 0.0027uF | 5% | 50V |
| C228 | 1-136-162-00 | FILM | 0.056uF | 5% | 50V |
| C229 | 1-136-162-00 | FILM | 0.056uF | 5% | 50V |
| C230 | 1-163-117-00 | CERAMIC CHIP | 100PF | 5% | 50V |
| C231 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C232 | 1-126-300-11 | ELECT | 0.47uF | 20% | 50V |
| C233 | 1-130-476-00 | MYLAR | 0.0027uF | 5% | 50V |
| C234 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C235 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C236 | 1-163-105-00 | CERAMIC CHIP | 33PF | 5% | 50V |
| C237 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C239 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C240 | 1-131-375-00 | TANTALUM | 4.7uF | 20% | 10V |
| C310 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C311 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C312 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C313 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C321 | 1-126-301-11 | ELECT | 1uF | 20% | 50V |
| C322 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C323 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C324 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| C325 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C326 | 1-163-081-00 | CERAMIC CHIP | 0.22uF | | 25V |
| C431 | 1-126-935-11 | ELECT | 470uF | 20% | 16V |
| C432 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C433 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C501 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C502 | 1-163-227-11 | CERAMIC CHIP | 10PF | 5% | 50V |
| C503 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C506 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C509 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C511 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C513 | 1-163-809-11 | CERAMIC CHIP | 0.047uF | 10% | 25V |
| C514 | 1-135-177-21 | TANTALUM CHIP | 1uF | 20% | 20V |
| C515 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C516 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C517 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C518 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C519 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C521 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C522 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C524 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C525 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| C526 | 1-126-301-11 | ELECT | 1uF | 20% | 50V |
| C527 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C528 | 1-124-234-00 | ELECT | 22uF | 20% | 16V |
| C529 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C530 | 1-126-295-11 | ELECT | 10uF | 20% | 35V |
| C531 | 1-126-925-11 | ELECT | 470uF | 20% | 10V |
| C533 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C534 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | 10% | 50V |
| C535 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C536 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C537 | 1-163-037-11 | CERAMIC CHIP | 0.022uF | 10% | 25V |
| C538 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C539 | 1-126-294-11 | ELECT | 4.7uF | 20% | 35V |
| C540 | 1-164-232-11 | CERAMIC CHIP | 0.01uF | | 50V |
| C541 | 1-125-486-11 | DUBLE LAYERS | 0.22F | | 5.5V |
| C542 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C543 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C544 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C545 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C546 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C548 | 1-163-038-00 | CERAMIC CHIP | 0.1uF | | 25V |
| C549 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C550 | 1-126-277-11 | ELECT | 100uF | 20% | 10V |
| C551 | 1-164-182-11 | CERAMIC CHIP | 0.0033uF | 10% | 50V |
| C552 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C553 | 1-126-157-11 | ELECT | 10uF | 20% | 16V |
| C554 | 1-126-162-11 | ELECT | 3.3uF | 20% | 50V |

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| Ref. No. | Part No. | Description | | Remark |
|---|---|---|---|---|
| C555 | 1-163-038-00 | CERAMIC CHIP 0.1uF | | 25V |
| C556 | 1-163-038-00 | CERAMIC CHIP 0.1uF | | 25V |
| C557 | 1-135-177-21 | TANTAL CHIP 1uF | 10% | 20V |
| C558 | 1-135-177-21 | TANTAL CHIP 1uF | 10% | 20V |
| C559 | 1-164-232-11 | CERAMIC CHIP 0.01uF | 10% | 50V |
| C591 | 1-126-157-11 | ELECT 10uF | 20% | 16V |
| C592 | 1-163-081-00 | CERAMIC CHIP 0.22uF | | 25V |
| C593 | 1-164-232-11 | CERAMIC CHIP 0.01uF | | 50V |
| C594 | 1-163-038-00 | CERAMIC CHIP 0.1uF | | 25V |
| C595 | 1-163-038-00 | CERAMIC CHIP 0.1uF | | 25V |
| | | < CERAMIC FILTER > | | |
| CF10 | 1-567-415-11 | FILTER, CERAMIC | | |
| CF11 | 1-567-415-11 | FILTER, CERAMIC | | |
| CF20 | 1-567-415-11 | FILTER, CERAMIC | | |
| | | < CONNECTOR > | | |
| CN10 * | 1-573-607-11 | CONNECTOR, L TYPE 6P | | |
| CN40 * | 1-573-608-11 | CONNECTOR, L TYPE 7P | | |
| CN50 * | 1-566-454-11 | CONNECTOR, L TYPE 8P (XR-U882) | | |
| CNP332 | 1-569-363-21 | CONNECTOR, FPC 15P | | |
| CNP333 * | 1-506-988-11 | PIN, CONNECTOR (PC BOARD) 6P | | |
| CNP334 * | 1-506-985-11 | PIN, CONNECTOR (PC BOARD) 3P | | |
| CNP335 * | 1-580-915-11 | SOCKET, CONNECTOR 6P | | |
| CNP431 * | 1-580-920-11 | HOUSING, CONNECTOR 7P | | |
| CNP433 * | 1-506-984-11 | PIN, CONNECTOR (PC BOARD) 2P | | |
| CNP531 * | 1-580-911-11 | HOUSING, CONNECTOR 11P | | |
| CNP532 | 1-580-907-11 | PLUG, CONNECTOR | | |
| CNP533 * | 1-506-984-11 | PIN, CONNECTOR (PC BOARD) 2P | | |
| CNP534 * | 1-506-985-11 | PIN, CONNECTOR (PC BOARD) 3P | | |
| CNP535 * | 1-506-985-11 | PIN, CONNECTOR (PC BOARD) 3P | | |
| CNP536 | 1-564-187-00 | PIN, CONNECTOR | | |
| | | < DIODE > | | |
| D1 | 8-719-800-76 | DIODE 1SS226 | | |
| D2 | 8-719-976-31 | DIODE 1SS332 | | |
| D10 | 8-719-800-76 | DIODE 1SS226 | | |
| D11 | 8-719-989-95 | DIODE 1SV154 | | |
| D12 | 8-716-976-31 | DIODE 1SS332 | | |
| D20 | 8-719-800-75 | DIODE 1SS226 | | |
| D21 | 8-719-989-96 | DIODE 1SV154 | | |
| D22 | 8-716-976-31 | DIODE 1SS332 | | |
| D50 | 8-719-976-31 | DIODE 1SS332 (XR-U882) | | |
| D60 | 8-719-976-31 | DIODE 1SS332 | | |
| D61 | 8-719-800-76 | DIODE 1SS226 | | |
| D62 | 8-719-976-31 | DIODE 1SS332 | | |
| D63 | 8-719-400-18 | DIODE MA152WK | | |
| D320 | 8-719-400-18 | DIODE MA152WK | | |
| D321 | 8-719-800-76 | DIODE 1S | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| D322 | 8-719-976-83 | DIODE DTZ3.6 | |
| D431 | 8-719-976-31 | DIODE 1SS332 | |
| D432 | 8-719-976-31 | DIODE 1SS332 | |
| D433 | 8-719-400-18 | DIODE MA152WK | |
| D434 | 8-719-977-25 | DIODE DTZ9.1C | |
| D501 | 8-719-976-31 | DIODE 1SS332 | |
| D502 | 8-719-976-31 | DIODE 1SS332 | |
| D503 | 8-719-400-18 | DIODE MA152WK | |
| D504 | 8-719-976-31 | DIODE 1SS332 | |
| D505 | 8-719-400-18 | DIODE MA152WK | |
| D506 | 8-719-976-31 | DIODE 1SS332 | |
| D507 | 8-719-976-31 | DIODE 1SS332 | |
| D508 | 8-719-976-31 | DIODE 1SS332 | |
| D509 | 8-719-400-18 | DIODE MA152WK | |
| D510 | 8-719-977-07 | DIODE DTZ6.2B | |
| D511 | 8-719-977-07 | DIODE DTZ6.2B | |
| D512 | 8-719-976-31 | DIODE 1SS332 | |
| D513 | 8-719-977-07 | DIODE DTZ6.2B | |
| D514 | 8-719-977-07 | DIODE DTZ6.2B | |
| D515 | 8-719-400-18 | DIODE MA152WK | |
| D516 | 8-719-977-07 | DIODE DTZ6.2B | |
| D517 | 8-719-104-34 | DIODE 1S2836 | |
| D518 | 8-719-976-31 | DIODE 1SS332 | |
| D519 | 8-719-977-16 | DIODE DTZ7.5B | |
| D520 | 8-719-976-31 | DIODE 1SS332 | |
| D521 | 8-719-978-05 | DIODE DTZ3.6 | |
| D522 | 8-719-977-25 | DIODE DTZ9.1C | |
| D523 | 8-719-977-03 | DIODE DTZ5.6B | |
| D524 | 8-719-977-32 | DIODE DTZ11B | |
| D525 | 8-719-976-31 | DIODE 1SS332 | |
| D526 | 8-719-977-16 | DIODE DTZ7.5B | |
| D529 | 8-719-977-25 | DIODE DTZ9.1C | |
| D530 | 8-719-400-18 | DIODE MA152WK | |
| D531 | 8-719-977-07 | DIODE DTZ6.2B | |
| D532 | 8-719-976-31 | DIODE 1SS332 | |
| D533 | 8-719-977-25 | DIODE DTZ9.1C | |
| D535 | 8-719-977-16 | DIODE DTZ7.5B | |
| D534 | 8-719-977-07 | DIODE DTZ6.2B | |
| D536 | 8-719-977-16 | DIODE DTZ7.5B | |
| D537 | 8-719-977-28 | DIODE DTZ10B | |
| | | < IC > | |
| IC1 | 8-759-823-81 | IC LC7216M | |
| IC10 | 8-759-201-36 | IC TA7303P | |
| IC11 | 8-759-509-91 | IC XRA10393F | |
| IC20 | 8-759-201-36 | IC TA7303P | |
| IC40 | 8-759-514-80 | IC TBA120U | |
| IC41 | 8-759-514-78 | IC SAF7579T | |
| IC42 | 8-759-823-84 | IC LC7071NM | |

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| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| IC50 | 8-759-998-24 | IC TDA1579T (XR-U882) | |
| IC51 | 8-759-981-92 | IC RC4558M (XR-U882) | |
| IC60 | 8-759-246-22 | IC TA8172AF | |
| IC61 | 8-759-970-89 | IC BA10358F | |
| IC121 | 8-759-711-85 | IC NJM4580E-D | |
| IC122 | 8-759-711-85 | IC NJM4580E-D | |
| IC123 | 8-759-711-85 | IC NJM4580E-D | |
| IC221 | 8-759-711-85 | IC NJM4580E-D | |
| IC222 | 8-759-711-85 | IC NJM4580E-D | |
| IC223 | 8-759-711-85 | IC NJM4580E-D | |
| IC311 | 8-752-055-10 | IC CXA1332M | |
| IC321 | 8-759-820-15 | IC LC7537AN | |
| IC322 | 8-759-711-85 | IC NJM4580E-D | |
| IC431 | 8-759-823-87 | IC LB1638M | |
| IC501 | 8-759-155-03 | IC uPD75116GF-E47-3BE | |
| IC502 | 8-759-154-93 | IC uPD75116GF-E23-3BE | |
| IC503 | 8-759-513-44 | IC X24C16SI | |
| IC504 | 8-759-940-45 | IC S-8054HN-CB | |
| IC505 | 8-759-823-87 | IC LB1638M | |
| IC506 | 8-759-710-82 | IC NJM2406F | |
| | | < CONNECTOR > | |
| J1 | * 1-563-961-11 | SOCKET, CONNECTOR | |
| J2 | * 1-563-961-11 | SOCKET, CONNECTOR | |
| | | < JUMPER > | |
| JR1 | 1-216-295-00 | METAL CHIP 0 5% 1/10W (XR-U881) | |
| JR60 | 1-216-296-00 | METAL GLAZE 0 5% 1/8W | |
| JR500 | 1-216-295-00 | METAL CHIP 0 5% 1/10W (XR-U882) | |
| JR518 | 1-216-295-00 | METAL CHIP 0 5% 1/10W (XR-U881) | |
| JR527 | 1-216-295-00 | METAL CHIP 0 5% 1/10W (XR-U881) | |
| JR548 | 1-216-295-00 | METAL CHIP 0 5% 1/10W (XR-U881) | |
| | | < COIL > | |
| L1 | 1-410-196-11 | INDUCTOR CHIP 2.2mH (XR-U882) | |
| L1 | 1-410-200-31 | INDUCTOR CHIP 4.7uH (XR-U881) | |
| L2 | 1-412-516-21 | INDUCTOR 22mH (XR-U881) | |
| L3 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L4 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L5 | 1-410-184-51 | INDUCTOR CHIP 0.22uH | |
| L6 | 1-410-184-51 | INDUCTOR CHIP 0.22uH | |
| L10 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L11 | 1-408-798-00 | INDUCTOR CHIP 1mH | |
| L12 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L13 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L20 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L21 | 1-408-798-00 | INDUCTOR CHIP 1mH | |
| L50 | 1-424-036-11 | COIL (FILTER) (XR-U882) | |
| L60 | 1-408-798-00 | INDUCTOR CHIP 1mH | |
| L61 | 1-410-196-11 | INDUCTOR CHIP 2.2uH | |
| L62 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L501 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| L502 | 1-410-204-31 | INDUCTOR CHIP 10uH | |
| | | < TRANSISTOR > | |
| Q1 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| Q2 | 8-729-901-00 | TRANSISTOR DTC124EK | |
| Q3 | 8-729-809-71 | TRANSISTOR 2SK536 | |
| Q4 | 8-729-901-04 | TRANSISTOR DTA114EK | |
| Q10 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q11 | 8-729-901-04 | TRANSISTOR DTA114EK | |
| Q12 | 8-729-304-14 | TRANSISTOR 2SK360E | |
| Q13 | 8-729-920-41 | TRANSISTOR FMC3 | |
| Q20 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q21 | 8-729-901-04 | TRANSISTOR DTA114EK | |
| Q23 | 8-729-920-41 | TRANSISTOR FMC3 | |
| Q40 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q41 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q60 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q61 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q62 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q63 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q121 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q122 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q124 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q221 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q222 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q224 | 8-729-920-21 | TRANSISTOR DTC314TKH04 | |
| Q311 | 8-729-920-56 | TRANSISTOR FMG1 | |
| Q431 | 8-729-106-60 | TRANSISTOR 2SB1115A | |
| Q432 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q433 | 8-729-921-48 | TRANSISTOR 2SD1760F5-Q | |
| Q434 | 8-729-920-41 | TRANSISTOR FMC3 | |
| Q501 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q502 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q503 | 8-729-903-10 | TRANSISTOR FMW1 | |
| Q504 | 8-729-907-26 | TRANSISTOR IMX1 | |
| Q505 | 8-729-903-10 | TRANSISTOR FMW1 | |
| Q506 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q507 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q508 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q509 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q510 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q511 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q512 | 8-729-920-41 | TRANSISTOR FMC3 | |
| Q513 | 8-729-920-41 | TRANSISTOR FMC3 | |
| Q514 | 8-729-904-63 | TRANSISTOR DTB123YK | |
| Q515 | 8-729-904-63 | TRANSISTOR DTB123YK | |

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| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| Q516 | 8-729-904-63 | TRANSISTOR DTB123YK | |
| Q517 | 8-729-904-63 | TRANSISTOR DTB123YK | |
| Q518 | 8-729-106-68 | TRANSISTOR 2SD1615A-GP | |
| Q519 | 8-729-903-10 | TRANSISTOR FMW1 | |
| Q520 | 8-729-931-07 | TRANSISTOR 2SD1759F5 | |
| Q521 | 8-729-921-48 | TRANSISTOR 2SD1760F5-Q | |
| Q522 | 8-729-105-29 | TRANSISTOR 2SA1385 | |
| Q523 | 8-729-105-29 | TRANSISTOR 2SA1385 | |
| Q524 | 8-729-920-28 | TRANSISTOR FMG9 | |
| Q525 | 8-729-921-48 | TRANSISTOR 2SD1760F5-Q | |
| Q526 | 8-729-106-60 | TRANSISTOR 2SB1115A | |
| Q527 | 8-729-901-04 | TRANSISTOR DTA114EK | |
| Q528 | 8-729-921-48 | TRANSISTOR 2SD1760F5-Q | |
| Q529 | 8-729-921-48 | TRANSISTOR 2SD1760F5-Q | |
| Q530 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q531 | 8-729-920-41 | TRANSISTOR FMC3 | |
| Q532 | 8-729-921-48 | TRANSISTOR 2SD1760F5-Q | |
| Q533 | 8-729-900-53 | TRANSISTOR DTC114EK | |
| Q534 | 8-729-106-60 | TRANSISTOR 2SB1115A | |
| Q535 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |

< RESISTOR >

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R1 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R2 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R3 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R4 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R5 | 1-216-063-00 | METAL CHIP | 3.9K | 5% | 1/10W |
| R6 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R7 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R8 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R9 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R10 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R11 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R12 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R13 | 1-216-017-00 | METAL CHIP | 47 | 5% | 1/10W |
| R14 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R15 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R16 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R17 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R18 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R20 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R21 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R22 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R23 | 1-216-017-00 | METAL CHIP | 47 | 5% | 1/10W |
| R24 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R25 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R26 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R27 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R28 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R30 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R31 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R32 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R33 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R34 | 1-216-039-00 | METAL CHIP | 390 | 5% | 1/10W |
| R35 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R40 | 1-216-101-00 | METAL CHIP | 150K | 5% | 1/10W |
| R41 | 1-216-093-00 | METAL CHIP | 68K | 5% | 1/10W |
| R42 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R43 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R44 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R45 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R46 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R47 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R48 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R50 | 1-216-093-00 | METAL CHIP (XR-U882) | 68K | 5% | 1/10W |
| R51 | 1-216-089-00 | METAL CHIP (XR-U882) | 47K | 5% | 1/10W |
| R52 | 1-216-041-00 | METAL CHIP (XR-U882) | 470 | 5% | 1/10W |
| R53 | 1-216-065-00 | METAL CHIP (XR-U882) | 4.7K | 5% | 1/10W |
| R54 | 1-216-097-00 | METAL CHIP (XR-U882) | 100K | 5% | 1/10W |
| R55 | 1-216-105-00 | METAL CHIP (XR-U882) | 220K | 5% | 1/10W |
| R56 | 1-216-117-00 | METAL CHIP (XR-U882) | 680K | 5% | 1/10W |
| R57 | 1-216-116-00 | METAL GLAZE (XR-U882) | 620K | 5% | 1/10W |
| R58 | 1-216-089-00 | METAL CHIP (XR-U882) | 47K | 5% | 1/10W |
| R59 | 1-216-075-00 | METAL CHIP (XR-U882) | 12K | 5% | 1/10W |
| R60 | 1-216-085-00 | METAL CHIP (XR-U882) | 33K | 5% | 1/10W |
| R61 | 1-216-106-00 | METAL CHIP (XR-U882) | 240K | 5% | 1/10W |
| R62 | 1-216-095-00 | METAL CHIP (XR-U882) | 82K | 5% | 1/10W |
| R63 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R64 | 1-216-845-11 | METAL CHIP (XR-U882) | 100K | 5% | 1/16W |
| R65 | 1-216-845-11 | METAL CHIP (XRU-882) | 100K | 5% | 1/16W |
| R66 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R67 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R68 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W |
| R69 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R70 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |

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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R71 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R72 | 1-216-069-00 | METAL CHIP | 6.8K | 5% | 1/10W |
| R73 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W |
| R74 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R75 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R76 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R77 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R78 | 1-216-039-00 | METAL CHIP | 390 | 5% | 1/10W |
| R79 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R80 | 1-216-017-00 | METAL CHIP | 47 | 5% | 1/10W |
| R81 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R82 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R83 | 1-216-687-11 | METAL CHIP | 33K | 0.5% | 1/10W |
| R84 | 1-216-071-00 | METAL CHIP | 8.2K | 5% | 1/10W |
| R85 | 1-216-055-00 | METAL CHIP | 1.8K | 5% | 1/10W |
| R86 | 1-216-053-00 | METAL CHIP | 1.5K | 5% | 1/10W |
| R87 | 1-216-046-00 | METAL CHIP | 750 | 5% | 1/10W |
| R88 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R89 | 1-216-075-00 | METAL CHIP | 12K | 5% | 1/10W |
| R90 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R91 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R92 | 1-216-748-11 | METAL CHIP (XR-U882) | 39K | 5% | 1/10W |
| R92 | 1-216-685-11 | METAL CHIP (XR-U881) | 27K | 0.5% | 1/10W |
| R110 | 1-216-687-11 | METAL CHIP | 33K | 0.5% | 1/10W |
| R111 | 1-216-684-11 | METAL CHIP | 24K | 0.5% | 1/10W |
| R112 | 1-216-645-11 | METAL CHIP (XR-U881) | 560 | 0.5% | 1/10W |
| R120 | 1-216-687-11 | METAL CHIP | 33K | 0.5% | 1/10W |
| R121 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R122 | 1-216-067-00 | METAL CHIP (XR-U882) | 5.6K | 5% | 1/10W |
| R122 | 1-216-071-00 | METAL CHIP (XR-U881) | 8.2K | 5% | 1/10W |
| R123 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R124 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R125 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R126 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R127 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R128 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R129 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R130 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R131 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R132 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R133 | 1-216-649-11 | METAL CHIP | 820 | 0.5% | 1/10W |
| R134 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R135 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R136 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R137 | 1-216-649-11 | METAL CHIP | 820 | 0.5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R138 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R141 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R142 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R143 | 1-216-649-11 | METAL GLAZE | 820 | 0.5% | 1/10W |
| R144 | 1-215-469-00 | METAL FILM | 100K | 1% | 1/4W |
| R210 | 1-216-687-11 | METAL CHIP | 33K | 0.5% | 1/10W |
| R211 | 1-216-684-11 | METAL CHIP | 24K | 0.5% | 1/10W |
| R212 | 1-216-645-11 | METAL CHIP | 560 | 0.5% | 1/10W |
| R220 | 1-216-687-11 | METAL CHIP | 33K | 0.5% | 1/10W |
| R221 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R222 | 1-216-067-00 | METAL CHIP (XR-U882) | 5.6K | 5% | 1/10W |
| R222 | 1-216-071-00 | METAL CHIP (XR-U881) | 8.2K | 5% | 1/10W |
| R223 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R224 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R225 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R226 | 1-216-061-00 | METAL CHIP | 3.3K | 5% | 1/10W |
| R227 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R228 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R229 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R230 | 1-216-121-00 | METAL CHIP | 1M | 5% | 1/10W |
| R231 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R232 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R233 | 1-216-649-11 | METAL CHIP | 820 | 0.5% | 1/10W |
| R234 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R235 | 1-216-679-11 | METAL CHIP | 15K | 0.5% | 1/10W |
| R236 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R237 | 1-216-649-11 | METAL CHIP | 820 | 0.5% | 1/10W |
| R238 | 1-216-683-11 | METAL CHIP | 22K | 0.5% | 1/10W |
| R241 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R242 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R243 | 1-216-649-11 | METAL GLAZE | 820 | 0.5% | 1/10W |
| R244 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R310 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R311 | 1-216-685-11 | METAL CHIP | 27K | 0.5% | 1/10W |
| R312 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R313 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R314 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R320 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R321 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R322 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R431 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R432 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R433 | 1-220-149-91 | METAL GLAZE | 2.2 | 10% | 1/2W |
| R434 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R501 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R502 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R503 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |

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| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R504 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R505 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R506 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R507 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R508 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R509 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R510 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R511 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R512 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R513 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R514 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R515 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R516 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R517 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R518 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R520 | 1-216-025-00 | METAL CHIP | 100 | 5% | 1/10W |
| R521 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R522 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R523 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R524 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| R525 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R526 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R527 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| R528 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R529 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R530 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R531 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R532 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R533 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R534 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R535 | 1-216-825-11 | METAL CHIP | 2.2K | 5% | 1/16W |
| R536 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R537 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R538 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R539 | 1-216-081-00 | METAL CHIP | 22K | 5% | 1/10W |
| R540 | 1-216-063-00 | METAL CHIP | 3.9K | 5% | 1/10W |
| R541 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W |
| R542 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R543 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R544 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R545 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R546 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R547 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R548 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R549 | 1-216-687-11 | METAL CHIP | 33K | 0.5% | 1/10W |
| R550 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R551 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R552 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| R553 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R554 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R555 | 1-216-017-00 | METAL CHIP | 47 | 5% | 1/10W |
| R556 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R557 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R558 | 1-216-091-00 | METAL CHIP | 56K | 5% | 1/10W |
| R559 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R560 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R561 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R562 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R563 | 1-220-150-91 | METAL GLAZE | 680 | 10% | 1/2W |
| R564 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R565 | 1-220-150-91 | METAL GLAZE | 680 | 10% | 1/2W |
| R566 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R567 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R568 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R569 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R570 | 1-216-222-00 | METAL GLAZE | 10K | 5% | 1/8W |
| R571 | 1-216-206-00 | METAL GLAZE | 2.2K | 5% | 1/8W |
| R572 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R573 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R574 | 1-216-083-00 | METAL CHIP | 27K | 5% | 1/10W |
| R575 | 1-216-097-00 | METAL CHIP | 100K | 5% | 1/10W |
| R576 | 1-216-089-00 | METAL CHIP | 47K | 5% | 1/10W |
| R578 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R579 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R580 | 1-216-041-00 | METAL CHIP | 470 | 5% | 1/10W |
| R581 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R582 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R583 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R584 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R585 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R586 | 1-216-833-11 | METAL CHIP | 10K | 5% | 1/16W |
| R587 | 1-216-059-00 | METAL CHIP | 2.7K | 5% | 1/10W |
| R588 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R589 | 1-216-057-00 | METAL CHIP | 2.2K | 5% | 1/10W |
| R590 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R591 | 1-216-049-00 | METAL CHIP | 1K | 5% | 1/10W |
| R592 | 1-218-279-11 | METAL GLAZE | 12 | 5% | 1/2W |
| R593 | 1-218-279-11 | METAL GLAZE | 12 | 5% | 1/2W |
| R594 | 1-216-065-00 | METAL CHIP | 4.7K | 5% | 1/10W |
| R595 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R596 | 1-216-841-11 | METAL CHIP | 47K | 5% | 1/16W |
| R597 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R598 | 1-216-845-11 | METAL CHIP | 100K | 5% | 1/16W |
| R599 | 1-216-073-00 | METAL CHIP | 10K | 5% | 1/10W |
| R600 | 1-216-057-00 | METAL GLAZE | 2.2K | 10% | 1/10W |
| R601 | 1-216-049-00 | METAL GLAZE | 1K | 10% | 1/10W |

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MAIN | DIVER | RDS | ARI | REEL | PL | SENS

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | < VARIABLE RESISTOR > | |
| RV1 | 1-238-601-11 | RES, ADJ, CARBON 22K | |
| RV50 | 1-241-551-11 | RES, ADJ, CERMET 100 (XR-U882) | |
| RV60 | 1-238-604-11 | RES, ADJ, CARBON 220K | |
| RV61 | 1-238-601-11 | RES, ADJ, CARBON 22K | |
| RV62 | 1-238-600-11 | RES, ADJ, CARBON 10K | |
| | | < SWITCH > | |
| S10 | 1-572-272-11 | SWITCH, SLIDE (FM DIVE RSITY) | |
| S11 | 1-572-272-11 | SWITCH, SLIDE (MAIN/SUB) | |
| S501 | 1-572-272-11 | SWITCH, SLIDE (POWER SELECT) | |
| | | < BUZZER > | |
| SP501 | 1-529-078-11 | BUZZER, PIEZOELECTRIC | |
| | | < FILTER > | |
| T40 | 1-239-009-11 | FILTER, BAND PASS | |
| | | < TRANSFORMER > | |
| T60 | 1-404-955-11 | TRANSFORMER, IF | |
| | | < TUNER UNIT > | |
| TU1 | 1-465-687-11 | FRONT END, FM | |
| TU2 | 1-465-690-11 | TUNER UNIT (MW/SW) (XR-U882) | |
| TU2 | 1-465-689-11 | TUNER UNIT (MW/LW) (XR-U881) | |
| | | < VIBRATOR > | |
| X1 | 1-567-848-11 | VIBRATOR, CRYSTAL (7.2MHZ) | |
| X40 | 1-579-242-11 | VIBRATOR, CRYSTAL (4.33MHZ) | |
| X41 | 1-567-819-11 | VIBRATOR, CERAMIC (4MHZ) | |
| X60 | 1-579-279-11 | VIBRATOR, CERAMIC (19KHz) | |
| X501 | 1-567-821-11 | VIBRATOR, CRYSTAL (4.19MHZ) | |
| X502 | 1-567-775-11 | VIBRATOR, CERAMIC (4.19MHZ) | |

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* 1-639-453-11 REEL BOARD
**********

| | | | |
|---|---|---|---|
| | | < PHOTO REFLECTOR > | |
| PH411 | 8-719-988-14 | PHOTO REFLECTOR PR-11-B-T | |
| PH412 | 8-719-988-14 | PHOTO REFLECTOR PR-11-B-T | |
| | | < TRANSISTOR > | |
| Q411 | 8-729-904-07 | TRANSISTOR FMG2 | |

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| | | < RESISTOR > | | | |
| R411 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R412 | 1-216-105-00 | METAL CHIP | 220K | 5% | 1/10W |
| R413 | 1-216-190-00 | METAL GLAZE | 470 | 5% | 1/8W |

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* 1-639-454-11 PL BOARD
*********

| | | | |
|---|---|---|---|
| | | < PLUNGER SOLENOID > | |
| PM901 | 1-454-461-11 | SOLENOID, PLUNGER | |

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* 1-639-452-11 SENS BOARD
**********

| | | | |
|---|---|---|---|
| | | < CAPACITOR > | |
| C421 | 1-163-081-00 | CERAMIC CHIP 0.22uF | 25V |
| | | < CONNECTOR > | |
| CNP421 | 1-573-006-11 | CONNECTOR, FPC (1.0MM) (Z1F) 7P | |
| CNP422 | * 1-506-998-11 | PIN, CONNECTOR (PC BOARD) 2P | |
| | | < DIODE > | |
| D421 | 8-719-976-31 | DIODE 1SS332 | |
| | | < PHOTO TRANSISTOR > | |
| PH421 | 8-719-987-53 | PHOTO TRANSISTOR GP1S37 | |
| | | < TRANSISTOR > | |
| Q421 | 8-729-902-99 | TRANSISTOR DTC114TK | |
| | | < RESISTOR > | |
| R421 | 1-216-186-00 | METAL GLAZE 330 | 5% 1/8W |
| R422 | 1-216-186-00 | METAL GLAZE 330 | 5% 1/8W |
| R423 | 1-216-049-00 | METAL CHIP 1K | 5% 1/10W |

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POWER RST

| Ref. No. | Part No. | Description | | | Remark |
|---|---|---|---|---|---|
| * | 1-640-209-11 | POWER BOARD | | | |
| | | ********** | | | |
| | | < CAPACITOR > | | | |
| C915 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C916 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C917 | 1-124-343-00 | ELECT | 2200MF | 20% | 16V |
| C918 | 1-130-483-00 | MYLAR | 0.01uF | 5% | 50V |
| C919 | 1-124-589-11 | ELECT | 47uF | 20% | 16V |
| | | < CONNECTOR > | | | |
| CN902 * | 1-580-913-11 | PLUG, CONNECTOR 6P | | | |
| | | < DIODE > | | | |
| D903 | 8-719-970-02 | DIODE 1SR139-400 | | | |
| D904 | 8-719-945-59 | DIODE DSA3A4 | | | |
| | | < THERMISTOR > | | | |
| THP901 | 1-809-148-11 | THERMISTOR, POSITIVE | | | |
| THP902 | 1-809-148-11 | THERMISTOR, POSITIVE | | | |
| | | < CONNECTOR > | | | |
| CNP901 * | 1-573-384-11 | CONNECTOR | | | |
| ********** | | | | | |
| * | 1-640-205-11 | RST BOARD | | | |
| | | ********* | | | |
| | | < DIODE > | | | |
| D527 | 8-719-987-41 | DIODE CL-150Y-CD | | | |
| D528 | 8-719-987-41 | DIODE CL-150Y-CD | | | |
| | | < RESISTOR > | | | |
| R577 | 1-216-987-41 | METAL CHIP | 390 | 5% | 1/10W |
| | | < SWITCH > | | | |
| S503 | 1-572-474-11 | SWITCH, TACTIL (RESRT) | | | |
| ********** | | | | | |

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| | | MISCELLANEOUS | |
| | | ************* | |
| 36 | 1-590-511-11 | CORD (WITH CONNECTOR) | |
| 37 | 1-590-525-11 | CORD (WITH CONNECTOR) | |
| 79 | 1-590-522-21 | CORD (WITH CONNECTOR) 5P | |
| 126 | 1-635-519-12 | PC BOARD, FLEXIBLE | |
| 127 * | 1-563-470-11 | HOUSING, CONNECTOR 2P | |
| 225 * | 1-563-470-11 | HOUSING, CONNECTOR 2P | |
| CNP901 * | 1-573-384-11 | CONNECTOR | |
| F1 | 1-532-457-XX | FUSE 3.15A | |
| F2 | 1-532-452-XX | FUSE 1A | |
| HP901 | 1-543-800-21 | HEAD, MAGNETIC (PLAYBACK) | |
| M901 | X-3344-136-3 | CAPSTAN MOTOR SUB ASSY | |
| M902 | X-3362-826-1 | GEAR ASSY, MOTOR | |
| M903 | X-3362-835-1 | MOTOR BLOCK ASSY | |
| S504 | 1-570-883-11 | SWITCH, PUSH (2 KEY) (DPO/DPI) | |
| S902 | 1-572-397-11 | SWITCH, ROTARY SLIDE | |
| ********** | | | |
| | | ACCESSORIES & PACKING MATERIALS | |
| | | ******************************** | |
| | 1-465-698-11 | REMOTE COMMANDER (RM-X30) (XR-U881) | |
| | 1-465-698-21 | REMOTE COMMANDER (RM-X30) (XR-U882) | |
| | 1-590-503-11 | CORD (WITH CONNECTOR) (8P-8P, UNILINK) | |
| | 1-590-522-21 | CORD (WITH CONNECTOR) (5P) | |
| | 3-316-617-01 | BAG, PROTECTION | |
| * | 3-355-207-01 | CARDBOARD (E) | |
| | 3-367-590-01 | COLLAR | |
| | 3-753-331-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, DUTCH) (XR-U881) | |
| | 3-753-331-41 | MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE) (XR-U881) | |
| | 3-753-331-51 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U882) | |
| | 3-753-332-11 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, DUTCH) (XR-U881) | |
| | 3-753-332-41 | MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE) (XR-U881) | |
| | 3-753-332-51 | MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U882) | |
| ********** | | | |

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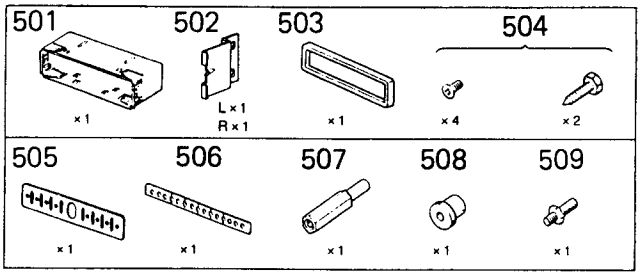
## HARDWARE LIST

| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| # 1 | 7-627-553-18 | SCREW, PRECISION +P 2X2 | |
| # 2 | 7-627-553-28 | SCREW, PRECISION +P 2X2.5 | |
| # 3 | 7-627-554-28 | SCREW, PRECISION +P 2X5 TYPE1 | |
| # 4 | 7-627-556-78 | SCREW, PRECISION +P 2.6X6 TYPE1 | |
| # 5 | 7-621-770-87 | SCREW +PTT 2.6X5 (S) | |
| # 6 | 7-621-773-86 | SCREW +PTT 2.6X4 (S) | |
| # 7 | 7-685-103-19 | SCREW +P 2X5 TYPE2 NON-SLIT | |
| # 8 | 7-685-205-19 | SCREW +KTP 2X8 TYPE2 NON-SLIT | |
| # 9 | 7-627-852-38 | SCREW, PRECISION +P1.7X1.8 TYPE3 | |
| #10 | 7-627-554-07 | SCREW, PRECISION +P2X2.2 | |
| #11 | 7-628-253-00 | SCREW +PS 2X4 | |
| #12 | 7-621-255-65 | SCREW +P 2X10 | |
| #13 | 7-627-850-18 | SCREW, PRECISION +P 1.4X2.5 | |
| #14 | 7-627-850-67 | SCREW, PRECISION +P 1.4X4 | |
| #15 | 7-624-104-04 | STOP RING 2.0, TYPE -E | |

## MOUNTING HARDWARE




| Ref. No. | Part No. | Description | Remark |
|---|---|---|---|
| 501 | 3-323-219-01 | FRAME, FITTING | |
| 502 | 3-370-129-01 | CASE | |
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